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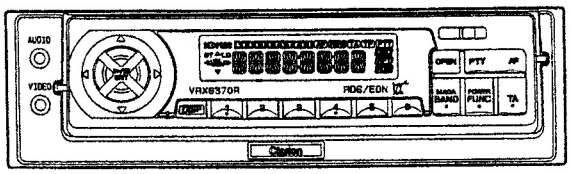
Service Manual



TV/RDS-EON/FM-MPX/MW/LW
RADIO WITH CD/MD CHANGER
CONTROL

Model *VRX8370R*
(QC-5550E-A)

■SPECIFICATIONS

FM Tuner section

Frequency range:	87.5MHz to 108.0MHz (0.05MHZ steps)
Usable sensitivity:	12dBf(new IHF)
50dB quieting sensitivity:	18dBf(new IHF)
Signal-to-noise ratio:	70dB(IHF・A)
Frequency response:	30 to 15kHz ±3dB
Stereo separation:	35dB(1KHz,60dB)

AM Tuner section

Frequency range:	MW	531kHz to 1602kHz (9kHz steps)
	LW	153kHz to 279kHz (3kHz steps)
Usable sensitivity:		28dB(μV)
Signal-to-noise ratio:		50dB(monaural)

TV Tuner section

Reception channels:	VHF	CCIR 2 to 12 ch
	UHF	CCIR 21 to 69 ch
Maximum sensitivity:	VHF	35dB(μV)or less
	UHF	40dB(μV)or less

Input/Output section

Video input:	1.0±0.2Vp-p (input impedance 75Ω) VTR video input 3.5Φmini-jack
Audio input:	130±60mVrms (input impedance 10kΩ or greater) VTR audio input 3.5Φmini-jack
Video output:	1.0±0.2Vp-p (input impedance 75Ω)
RGB input:	0.7±0.2Vp-p (input impedance 75Ω) Synchronize 0.3V+0.9/-0.1Vp-p (input impedance 75Ω)

Audio Amplifier section

Rated power output:	14W×4(20Hz to 20KHz, 1%,4Ω)
Maximum power output:	30W×4
Speaker impedance:	4Ω(4 to 8Ω)

LCD monitor section

Screen size:	5-inch (102mm Width×74mm Height)
Display method:	Transmission type TN liquid crystal display
Drive method:	TFT(thin-film transistor active matrix driving
Pixels:	224,640(960×234)

General

Power source voltage:	14.4V DC
Ground:	Negative
Current consumption:	4.0A(1W)
Dimensions(mm):	(source unit) 178(W)×50(H)×156(D) (tuner and amplifier unit) 206(W)×50(H)×195(D)

Weight: (source unit)
1.5kg
(tuner and amplifier unit)
1.2kg

※ Specifications and design are subject to change without notice for further improvement.

■COMPONENTS

QC-5550E-A

Source unit	————	1
Tuner amplifier unit	————	1
Connection lead (20pin DIN lead) (for the source unit and tuner amplifier unit)	855-0500-00	1
Connection lead (13pin C-BUS lead) (for the source unit and tuner amplifier unit)	854-3327-00	1
Antenna extension lead	093-1465-02	1
Power supply lead (for the tuner amplifier unit)	854-6303-02	1
Parking sensor extension lead(orange)	854-6302-00	1
Extension lead for security camera(white/red)	854-6304-00	1
Bag for accessories of the source unit	————	
Flat head screw(M5×8)	714-5008-41	4
Sems hexagonal bolt(M5×8)	716-0496-01	5
Bag for accessories of the source unit	————	
Hook plate	330-8216-01	2
Cord clamp	335-0833-01	1
Spacer	345-3653-01	1
Mounting screw	716-0726-01	1
Bag for accessories of the tuner amplifier unit	————	
Mounting bracket	300-7362-00	2
Clip	335-2515-00	4
Mounting screw(M4×8)	714-4008-80	4
Universal mounting bracket	300-9035-01	1
Remote control unit	RCB-114-300	1
Battery (for remote control unit)	————	1
Outer escutcheon	940-7715-01	1

■ To engineers in charge of repair or inspection of our products.

Before repair or inspection,make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage.Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable.The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction,use of insulation tubes,bonding,gaps to PWB,etc,is involved.The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts.Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair,the legal responsibility shall be with the repairing company.
3. Check for safety after repair.
   Check that the screws,parts and wires are put back securely in their original position after repair.Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair,the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off.If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur.If extensive damage is caused due to negligence of repair,the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance.Always replace them with new ones.(The chip parts include resistors,capacitors,diodes,transistors,etc).The negative pole of tantalum capacitors is highly susceptible to heat,so use special care when replacing them and check the operation afterwards.
6. Cautions in handling flexible PWB
   Before working with a soldering iron,make sure that the iron tip temperature is around 270℃.Take care not to apply the iron tip repeatedly(more than three times)to the same patterns.Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement.Recheck all work before you apply power to the unit.

■NOTE

1. Connection to the DSP/equalizer

When connecting the DSP or equalizer, the switch (Normal/DSP equalizer)on the attached tuner amplifier unit should be set to "D".

2. Switching the VTR system between NTSC and PAL

Switch to the VTR system you use.

1. Press the ADJ button to go to the CONFIGURATION mode.
2. Slide the α-selector to ▲ (up) or ▼ (down) to move the cursor to "VTR N/P".
3. Slide the α-selector ▶ (right) to select "NTSC" or "PAL".
4. Press the ADJ button to return to the previous mode.

3. Switching the TV diversity

The 4-channel TV diversity can be turned on and off if you connected an additional antenna.

When one antenna is connected, the diversity should be "OFF"(factory setting is "ON"). Wrong setting may ause noise.

1. Press the ADJ button to go to the CONFIGURATION mode.
2. Slide the α-selector to ▲ (up) or ▼ (down) to move the cursor to "TV DIVER".
3. Slide the α-selector ▶ (right) to select "ON" or "OFF".
4. Press the ADJ button to return to the previous mode.

4. Setting the receiving country

This function is not available when the display is stored.

Depending on the country to be received, switch the area as follows.

1. Press the ADJ button to go to the CONFIGURATION mode.
2. Slide the α-selector to ▲(up)or ▼(down)to move the cursor to"COUNTRY".
3. The country currently set is displayed when ENT of the α-selector is pressed.
4. Slide the α-selector to ▼(down) or ▲(up) to move the cursor of the to a country to be received and press ENT of the α-selector.
5. Press the ADJ button to return to the previous mode.

5. Note on the TV display (PAL system) with the country set to Italy

If the country has been set to Itary, some opertion names in the TV mode will be given in Itary, as shown below:

Preset Scan	→	SCANSIONE
Auto Store	→	MEMORIZZA
ONLY	→	SOLO

6. Note on the TV(PAL system) sound mute function with the country set to Itary

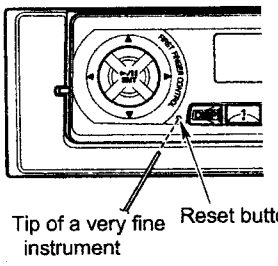
When you have switched to the TV mode (or,turned on the power to the TV mode, perfomed a preset call, or switched the bands), the mute function may be automatically invoked if signals from the current station is weak. The function will be cleared once the reciving condition has been improved.

■ERROR DISPLAYS

* If an error occurs, the type of error is displayed.
Take the measures described below to eliminate the problem.

Display	Name of error	Description
ERROR1	Memory error	This error occurs if the disc loading data, etc., is lost due to wear of the CD/MD changer's battery. (Remove all the discs from the magazine, insert the empty magazine and press the eject key to return to the first disc.)
ERROR2	Mechanical error	This error occurs if there is a problem with the mechanism and the eject or disc(CD/MD) selection operation is not completed in the specified amount of time.
ERROR3	Functional error	This error occurs if the pickup cannot focus after several tries due to scratches on the disc(CD/MD), signal interference, etc. (Replace the disc.)
ERROR6	Disc error	This error occurs when the disc(CD/MD) is loaded upside-down. (Reload the disc properly.)
TEMP ERROR	Temperature error	This error occurs when the CD/MD mechanism's temperature sensor detects that the temperature is too high. (When the temperature returns to normal, playback starts.)

■TROUBLESHOOTING

Sympton	Cause	Measure
Power does not switch on. (There is no sound produces.)	The fuse has blown.	Replace the fuse with one of the same rating(0.5A or 10A for this unit). If the fuse blows again, contact the store where you purchased the unit.
Nothing happens when buttons are pressed, or the display is not accurate.	Noise, etc., is causing the microprocessor to malfunction.	Press the reset button with the tip of a very fine instrument for about 2 seconds.  Tip of a very fine instrument Reset button
DSP/EQ does not operate.	The switch of the tuner unit is set to "N".	Turn off the ignition switch once and set the switch to "D".
Picture does not appear. Picture has shadow or shadows.	Parking brake is not applied. Signal condition is poor.	Check that the parking brake is fully applied. This may be due to signals reflected off mountains or buildings. Check again in a different place and direction.
LCD panel is not drawn in when it is set to the horizontal position.	Foreign object at back of tray.	Eject the compact disc and then insert another one.
Screen is dark.	Brightness is adjusted too low.	Check that the brightness is properly adjusted in the CONFIGURATION mode and set it properly.
	Usage conditions are poor.	This may happen if the temperature in the car is below −10℃ or above 60℃. Check again when the temperature is between 0 and 60℃.
Colors are pale or hue is poor.	COLOR (tone of color) and HUE are not adjusted appropriately.	Select the CONFIGURATION display and adjust the color and hue density using the COLOR and HUE controls.
Picture doubles or triples.	Signal condition is poor.	This may be due to signals reflected off mountains or buildings. Check again in a different place and direction.
Sports or stripes on picture.	Interference signals.	This may be caused by interference from other cars, trains, high voltage lines, neon lights, etc. Check again in another place.
The compact disc does not enter.	There is already a compact disc inside the disc insertion slot.	Eject the compact disc and then insert another one.
The compact disc soon comes out again.	The compact disc has been inserted upside down.	Insert the compact disc with the labeled side facing up.
Sound skipping noise and other noise are heard.	The compact disc is dirty.	Wipe the compact disc with a soft cloth.
	The compact disc is severely scratched or warped.	Replace the compact disc with one that is in good condition.
The sound is poor immediately after switching on the power.	When the car is parked in a humid place, dew might form on the internal lens.	Turn the unit on and wait for about 1 hour before operating.
When the VTR is connected, the display image is deformed.	NTSC/PAL setting is wrong.	Set NTSC or PAL in the CONFIGURATION display according to your VTR.

■ADJUSTMENT

Source unit section

1. DC-DC converter output voltage adjustment

1. Adjust VR602 so that the voltage of TP601 will become 5.3±0.02V. Make sure that the voltage has become the following value at each test point.

TP602:	7.5±0.5V
TP611:	12.7±0.5V
TP601:	-8.9±0.5V

2. VIDEO signal adjustment

Input the visual signal(1.0Vp-p,10step wave, APL=50%,monochrome)into the VTR1 input.

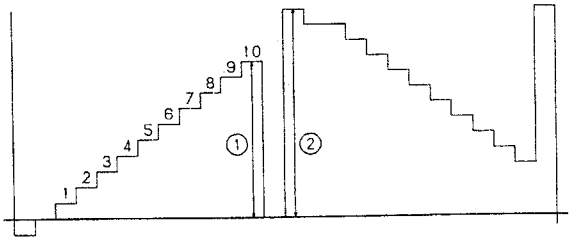


Fig.1

1. BRIGHT adjustment
   Adjust the brightness of the environment setting screen so that the TP607 voltage becomes 2.07± 0.02V
2. γ0 Adjustment
   Adjust VR604 so that the voltage of TP606 will become 2.30±0.05V.
3. γ2 Adjustment
   Adjust VR603 so that the voltage of TP605 will become 2.19±0.05V.
4. RGB-AMP adjustment
   Adjust the TP613 with VR605 so that the black-black level in Fig.1-② on synchroscope screen becomes 4.0±0.05Vp-p.
5. CONT-G Adjustment
   Adjust the TP613 with VR609 so that the CONT-G level in Fig.1-① on synchroscope screen becomes 3.8±0.05Vp-p.
6. CONT-R Adjustment
   Adjust the TP612 with VR607 so that the CONT-R level in Fig.1-① on synchroscope screen becomes 3.8±0.05Vp-p.
7. CONT-B Adjustment
   Adjust the TP614 with VR606 so that the CONT-B level in Fig.1-① on synchroscope screen becomes 3.8±0.05Vp-p.
8. VCOM-AC Amplitude Adjustment
   Adjust the TP604 with VR608 so that the VCOM-AC level in Fig.2 on synchroscope screen becomes 8.0±0.1Vp-p.

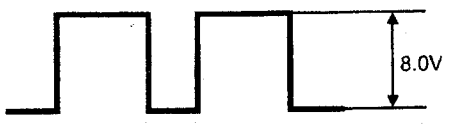


Fig.2

9. VCOM-DC bias voltage adjustment
   Adjust VR601 so that black bar comes to the left side of screen as shown in Fig.3.

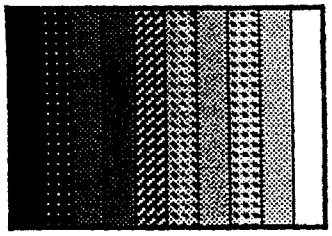


Fig.3

10. Burst cleaning coil adjustment
    Connect the synchroscope to TP614. Adjust L609 so that the wave form deviation of TP614 is minimized.

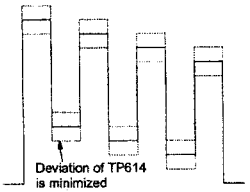


Fig.4

3. Dot clock adjustment

Return the screen to the radio screen. Then, adjust with TC501 so that the amplitudes of A and B become the same as shown in Fig.5.

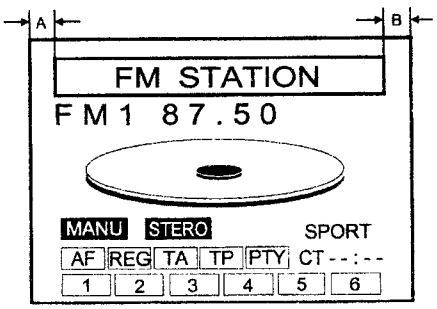


Fig.5

Tuner amplifier section

1. Adjustment of LLD coil and measurement of image frequency specification.

1. Connect the measuring equipment as shown in Fig.6.

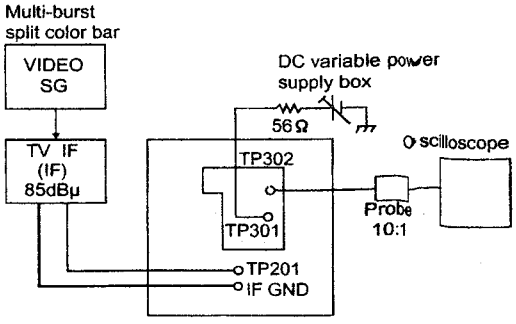


Fig.6

2. Remove the solder bridge of TP201. And, input the following signal to L18.
   Frequency : P:38.9MHz S:33.4MHz (invert mode)
   Output level : 85dBμ
   Image signal : multi-burst signal or sprit color bar signal
   Voice modulation : 1kHz 30%(15kHz · Dev)MONO
3. With the multi-burst signal, observe the wave form in Fig.7 with an oscilloscope.

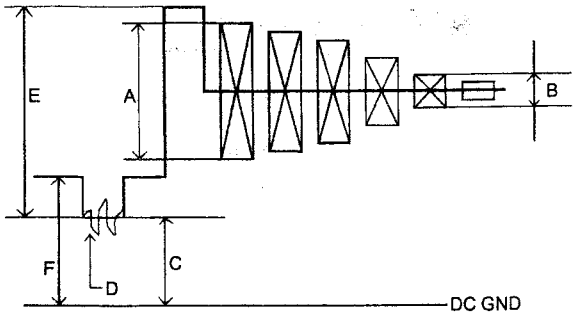


Fig.7

4. Adjust the IF-AGC voltage from TP301 with DC variable power supply so that the E-voltage in Fig.7 becomes approximately 1.5V.
5. Adjust the IFT302 so that the DC voltage of C or F Fig.7 becomes the minimum. When C- voltage drops and the wave form becomes unstable, adjust the ITF302 again.
6. Confirm that the H-SYNC (D) has no noise.
7. Confirm that the ratio of 4.43MHz and 500KHz is within the following range.
   0.5/4.43MHz · · · -10±4dB
   (Acceptable if A:B=5:1 more)

2. RF-AGC adjustment

1. Connect the measuring equipment as shown in Fig.8.

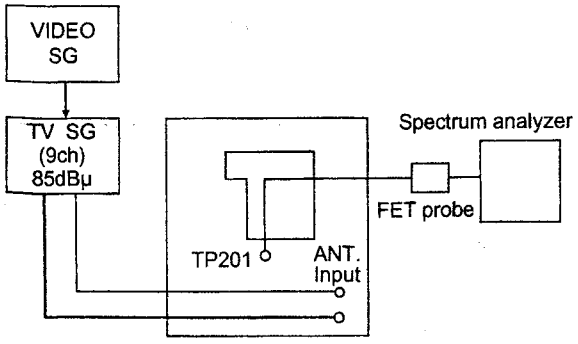


Fig.8

2. Solder-bridge the TP201. And, input the following signal.
   9ch output level : 85dBμ
   Visual signal : multi-burst signal
   Voice modulation : 1kHz 30%(15kHz · Dev)MONO
3. Adjust the VR301 so that the display level of the spectrum analyzer becomes 87dBμ.
   The set value of the spectrum analyzer is as follows. (Use the FET probe for measuring.)

RES · BW		300kHz
V · BW		300kHz
f0	=	38.9MHz
fspan	=	10MHz

3. Soft mute adjustment.

1. Connect the measuring equipment as shown in Fig.9.

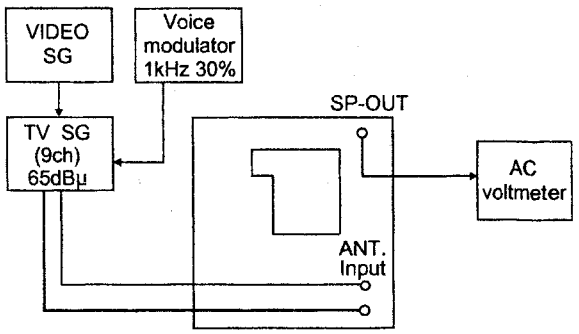


Fig.9

2. Input the following signal.
   9ch output level : 65dBμ
   Visual signal : multi-burst signal
   Voice modulation : 1kHz 30%(15kHz · Dev)MONO
3. The point on which SP output does not clip is defined 0dB.
4. Adjust the VR302 so that the voice output level drops by 10dB when the RF input is set to 0dB.

4. FM-SD adjustment

1. Connect the measuring equipment as shown in Fig.10.

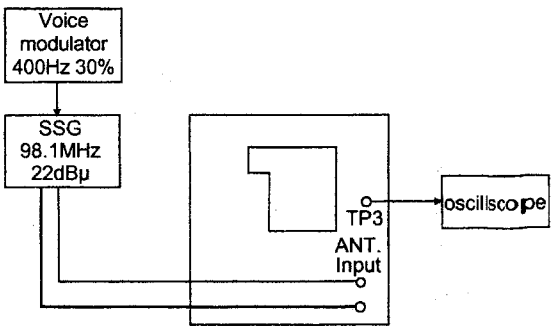


Fig.10

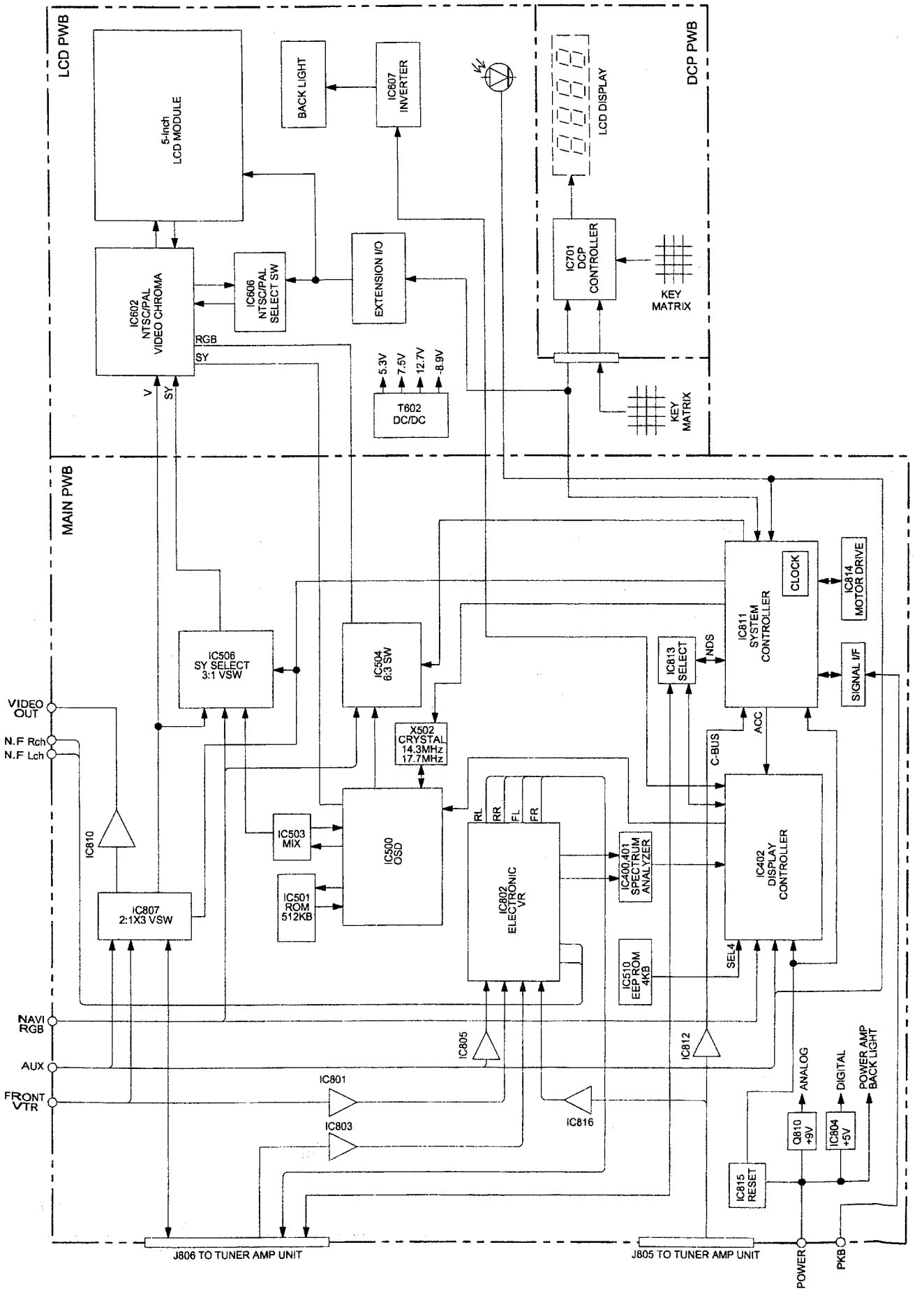
2. Input the following signal.
   Input signal : 98.1MHz/22dBμ(75Ω)
   Voice modulation : 400Hz 30% MONO
3. Adjust VR3 so that the voltage of TP3 is high (0V→5.0V).

5. S-meter adjustment

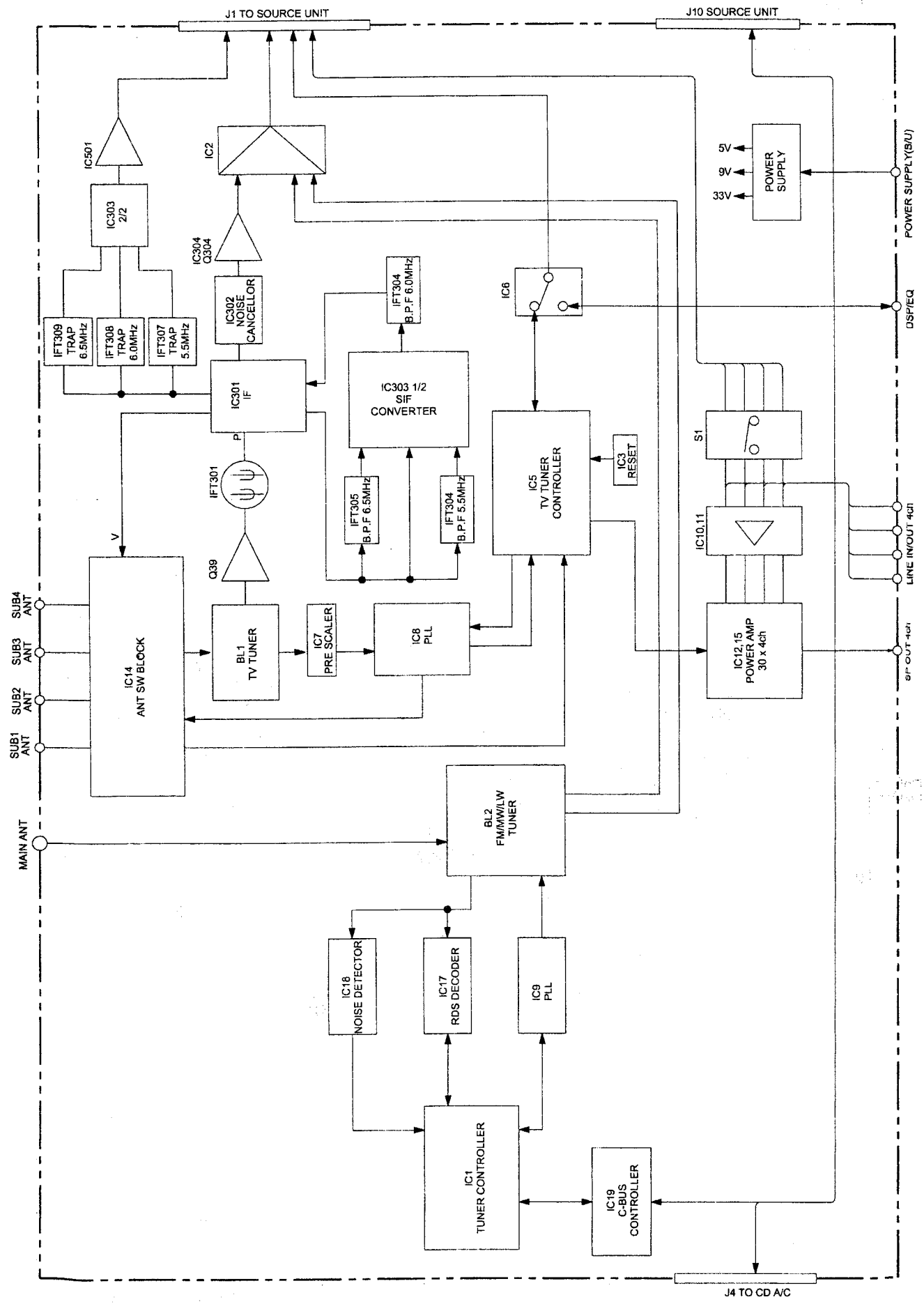
1. Input the following signal.
   Input signal : 98.1MHz/30dBμ(75Ω)
   Voice modulation : 400Hz 30% MONO
2. Turn on the power switch.and,Press the AF button and CH6 button at the same time(TEST MODE).
3. Adjust the reading of LCD indicator to 「24___0」 (2.4V) by VR1.

■BLOCK DIAGRAM

Source unit section



Tuner amp unit section



■EXPLANATION OF IC

■ μPD78052GC-108-3B9 052-1307-01
■ μPD78052GC-133-3B9 052-1307-10
Tuner Controller

Outward Form
80 pins, plastic QFP

Terminal Description

No.	Symbol	I/O	Function
1 ⟆ 3	NC	I	Connected to GND.
4	AVSS	–	Connected to GND.
5	TUN-REQ	O	NDS REQ to master microcomputer
6	NC	I	Connected to GND.
7	AV REF1	–	Connected to VDD.
8	RXD	I	Receiving terminal of start-stop synchronizing communication with Master microcomputer
9	TXD	O	Transmission terminal of start-stop synchronizing communication with Master microcomputer
10	NC	I	Connected to GND.
11	PLL-DATA	I	Data input from PLL IC
12	PLL-DATA	O	Data output to PLL IC
13	PLL-CLK	O	Clock output to PLL IC
14	PLL-CE	O	CE output to PLL IC
15 ⟆ 18	NC	I	Connected to GND.
19	TV-ON	O	TV power supply output terminal
20	AM-ON	O	AM power supply output terminal
21	FM-ON	O	FM power supply output terminal
22	NC	O	Not in use.
23	MONO/$\overline{ST}$	O	Output terminal for TV MONO/ST selection
24 25	NC	O	Not in use.
26	$\overline{TUN-MUTE}$	O	Tuner mute signal terminal
27	NC	I	Connected to GND.
28	ANT-SEL1	O	Output terminals for TV diversity ANT selection
29	ANT-SEL2	O	
30	AV ON	O	AMP STBY control terminal (PWR ON: ON)
31 32	NC	I	Connected to GND.
33	VSS	–	Connected to GND.
34	AM SD	I	AM SD input terminal (Presence of AM station is judged in SEEK mode.)
35	FM SD	I	FM SD input terminal (Presence of FM station is judged in SEEK mode.)
36	TV-$\overline{M}$/SUB	O	TV $\overline{MAIN}$/SUB select output terminal
37	SIF BAND1	O	Sound frequency select output terminals (Control of TV band for Asia specification)
38	SIF BAND2	O	
39	SIF BAND3	O	
40	NC	I	Connected to GND.

	S1	S2	S3	S4
ANT-SEL1	H	L	H	L
ANT-SEL2	H	H	L	L

Channel	SIF BAND1	SIF BAND2	SIF BAND3	Sound frequency
CCIR I.T. N.Z. AUSTRALIA	L	H	L	5.5MHz
HONGKONG SOUTH AFRICA IRELAND Angola channel	H	L	L	6.0MHz
CHINA OIRT channel	H	H	L	6.5MHz

No.	Symbol	I/O	Function
41 ⟆ 44	NC	I	Connected to GND.
45	AV5V-ON	O	5V power supply control terminal (PWR ON: ON)
46	NC	I	Connected to GND.
47	PA-MUTE	O	Amplifier mute output terminal
48 ⟆ 59	NC	I	Connected to GND.
60	$\overline{RESET}$	I	Reset signal input terminal
61	TV SYNC	I	Pulse input terminal for judging of TV station presence Synchronization for AV ON. (OFF: Sleep mode)
62	AV+B ON	I	Connected to GND.
63 ⟆ 65	NC	I	Terminals for selection of destination.
66	SIMUKE1	I	Power supply voltage terminal
67	SIMUKE2	I	
68	VDD	–	System clock terminals
69 70	X1 X2	–	4.9152 MHz
71	IC	–	Connected to VSS.
72	XT2	–	Not in use.
73	XT1	I	Connected to GND.
74	AVDD	–	Analog power supply terminal for AD converter
75	AVREFO	–	Standard voltage input terminal for AD converter
76 ⟆ 80	NC	I	Connected to GND.

	JPN	ASIA	EUR	USA
SIMUKE1	L	L	H	H
SIMUKE2	L	H	L	H

■μPD178016GC-516-3B9 052-1316-00 TV Controller

Outward Form

80 pins, plastic QFP

Terminal Description

No.	Symbol	I/O	Function
1 2	N.C.	I	Not in use
3	RDS S-METER	I	RDS S-METER voltage detection
4	RDS NOISE	I	RDS noise detection
5	N.C.	I	Not in use
6	E/U	I	Low for Europe, Hi for USA
7	RDS DISCHGE	O	Hi for DISCHGE
8 ∫ 11	N.C.	I	Not in use
12 13 14	C-BUS SI C-BUS SO C-BUS SCK	I O I	C-BUS communication line
15	RDS +B REM	O	Switches RDS power supply: Low except for AM
16	SD OPEN	O	Makes port Hi when FM SD Hi is input
17	FM LOCAL	O	Switches FM DX / LO: Low when local
18	SD UP	O	Low when following-up RDS
19	AM LOCAL	O	Switches AM DX/LO: Low when local
20	N.C.	O	Not in use
21	PORT GND	—	I/O port GND terminal
22	PORT VDD	—	I/O port power supply
23	RDS MUTE	O	Hi when RDS IF MUTE is output
24 ∫ 26	N.C.	O	Not in use
27	IF REQ	O	Lo when RADIO IF signal requested
28	AM IFC	I	AM IF signal input terminal
29	FM IFC	I	FM IF signal input terminal
30	PLL VDD	—	PLL circuit power supply terminal
31	FM IN	I	FM OSC signal input terminal
32	AM IN	I	AM OSC signal input terminal
33	PLL GND	—	PLL circuit GND terminal
34	EO 0	O	AM error out signal output terminal
35	EO 1	O	FM error out signal output terminal
36	IC-TEST	—	Connect to GND
37	AM SD	I	AM SD detection: Hi for SD ON
38	FM SD	I	FM SD detection: Hi for SD ON
39	FM ST	I	FM ST detection: Low for ST
40 ∫ 44	N.C.	I	Not in use
45	RADIO MUTE	O	Outputs MUTE for RADIO micro computer
46	FM ON	O	Switches FM power supply
47	AM ON	O	Switches AM power supply
48	C-BUS SRQ	O	Outputs C-BUS SRQ signal
49 ∫ 52	N.C.	I	Not in use
53 54 55 56	PLL DI PLL SCK PLL DO PLL CE	I O O O	PLL IC control line
57 ∫ 65	N.C.	I	Not in use
66	RDS DATA	I	Inputs data from decoder
67	RDS CLK	I	Inputs CLK signal from decoder
68	ACC CONT	I	Detects ACC CONT
69 ∫ 73	N.C.	I	Not in use
74	REG CPU	—	CPU power supply terminal: Connected with condenser.
75	GND	—	Micro computer GND terminal
76 77	X 2 X 1	— I	Connecting crystal terminal (4.5 MHz)
78	REG OSC	—	Power supply terminal for oscillation circuits: Connected with condenser.
79	VDD	—	CPU power supply terminal
80	RESET	I	RESET signal input terminal

■μPD78058FGC-059-3B9 052-6021-10 System controller

Outward Form

80 pins, plastic QFP

Terminal Description

No.	Symbol	I/O	Function
1 ⟆ 3	NC	—	Connected to GND.
4	AVSS	—	Connected to GND.
5	C-BUS SRQ	I	Input terminal of C-BUS service request
6	NDS SELO	O	NDS communication select output terminal
7	AV REF!	—	Connected to VDD.
8	RXD	I	Receiving terminal of start-stop synchronizing communication with slave microcomputer
9	TXD	O	Transmission terminal of start-stop synchronizing communication with slave microcomputer
10	NDS SELL1	O	NDS communication select output terminal
11	DCP DATA	I	μPD16431 Serial data input terminal
12	DCP DATA	O	Serial data output terminal with μPD16431/ TC74HC595
13	DCP CLK	O	Serial clock output terminal with μPD16431/ TC74HC595
14 15	NC	—	Connected to GND.
16	C-BUS IN	I	C-BUS data input terminal
17	C-BUS OUT	O	C-BUS data output terminal
18	C-BUS CLK	O	C-BUS clock output terminal
19 ⟆ 22	NC	—	Connected to GND.
23	$\overline{ILL}$	I	Lighting SW input terminal (L: ILL ON)
24	O/C SW	I	OPEN/CLOSE SW input terminal
25	DCP REQ	I	DCP request signal input terminal
26	NC	—	Connected to GND.
27 28	SEL2 SEL3	I I	AUX input terminals SEL2 | H | TV | L | VTR | H | TV | L | AUX SEL3 | H | TV | H | VTR | L | AUX | L | AUX (Upper: Sound Lower: Image)
29	EXIO-STB	O	TC74HC595 latch (rise) output terminal
30	DCP-CE	O	DCP IC chip enable output terminal
31	AV 5V ON	O	5V power supply control
32	$\overline{MUTE}$	O	Audio mute signal (L: MUTE ON)
33	VSS	—	GND terminal
34	ACC CONT2	O	ACC control signal 2 (C-BUS) output terminal
35	NTSC/$\overline{PAL}$	O	NTSC (RGB) /PAL control output terminal
36	VOL IC CLK	O	VOL IC (M62419FP) serial clock output terminal
37	VOL IC DAT	O	VOL IC (M62419FP) serial data output terminal
38	PANEL ON	O	ON/OFF of same timing with AV ON (Not turned on in screen storage status.)
39	$\overline{RESET\ OUT}$	O	Reset control output terminal to TUNER microcomputer
40	VSEL1	O	VIDEO signal select 1 output terminal
41	VSEL2	O	VIDEO signal select 2 output terminal
42	VSEL3	O	VIDEO signal select 3 output terminal
43 44	NC	—	Connected to GND.
45	BUZ	O	Buzzer output terminal (4 kHz)
46 ⟆ 48	NC	—	Connected to GND.
49	CLK	O	Clock output terminal
50	M-F	O	Motor control output terminal (Draw out)
51	M-R	O	Motor control output terminal (Storage)
52	NO-ACC	I	Destination input terminal of ACC presence H: Not presence L: Presence
53	OPEN	I	Input terminal of all screen extract detection
54	CLOSE	I	Input terminal of all screen storage detection
55	OVER LOAD	—	Connected to GND.
56	$\overline{VID}$/RGB	O	$\overline{VIDEO}$/RGB screen select output terminal
57	ACC+B ON	O	Power supply control output terminal of motor, back light, LED.
58	ACC CONT	O	ACC control signal (display microcomputer) output terminal
59	AV ON	O	Power supply control output terminal
60	$\overline{RESET}$	I	Reset input terminal
61	$\overline{IR}$	I	IR remote control input terminal
62	$\overline{O/C\ SW}$	I	OPEN/CLOSE switch input.
63	DISP REQ	I	Request input (rise) terminal from display microcomputer
64	TUNER REQ	I	Request input (rise) terminal from TUNER microcomputer
65	$\overline{PWR\ SW}$	I	PWR/FUNC SW input terminal
66	TILT	I	Tilt SW input terminal H: Horizontal L: Incline
67	DSP REQ	I	Request input (rise) terminal from DSP.
68	VDD	—	Power supply voltage terminal
69 70	X2 X1	—	Connection terminals for system clock oscillating crystal 4.091 MHz
71	IC	—	Connected to GND.
72 73	XT2 XT1	—	Connection terminal for clock crystal (32.768 kHz)
74	AVDD	—	Connected to VDD.
75	AVREF0	—	Connected to VDD.
76 ⟆ 80	NC	—	Connected to GND.

■μPD78058FGC-037-3B9 052-7021-01
■μPD78058FGC-060-3B9 052-7021-10 Display controller

Outward Form

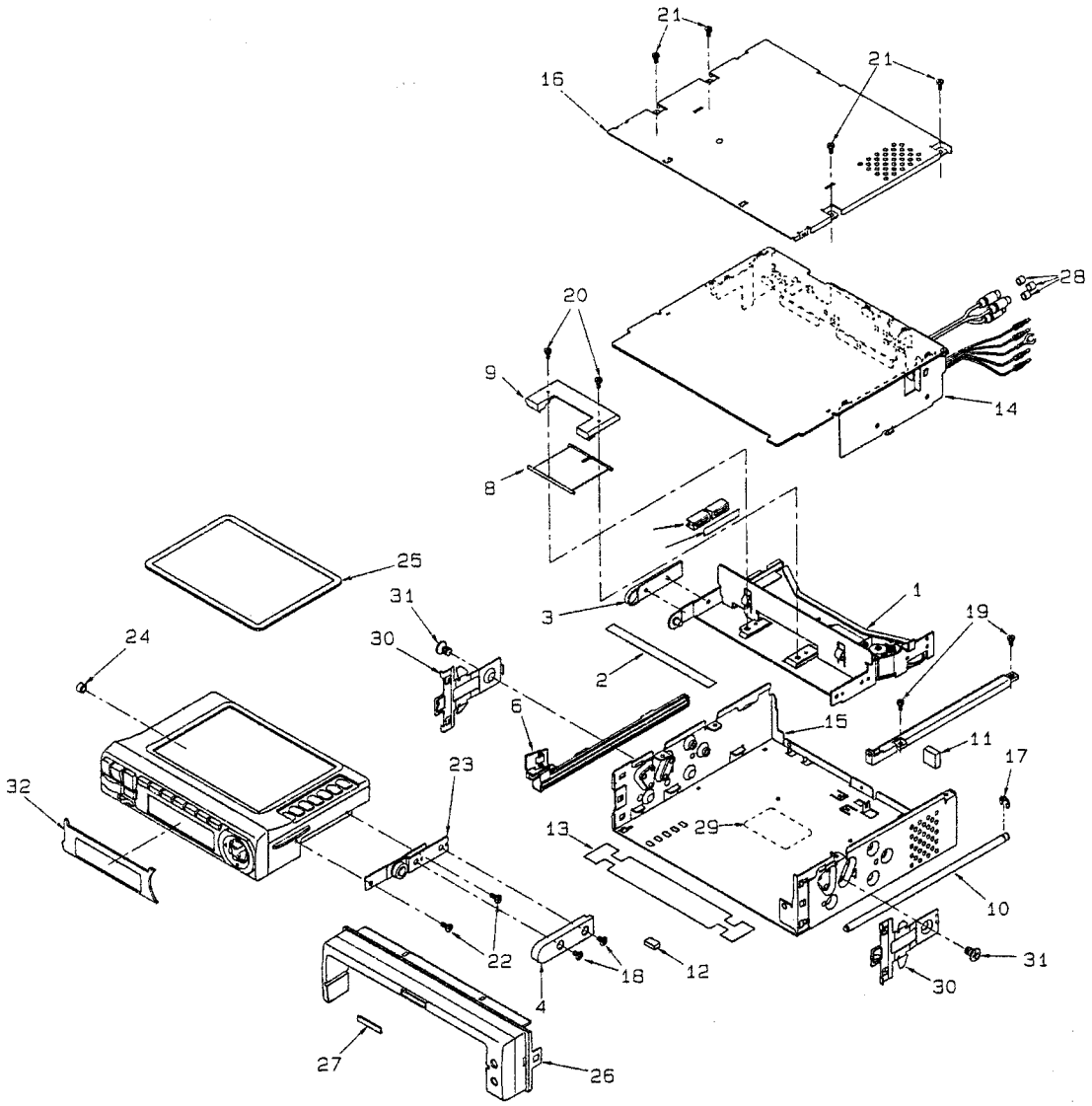
80 pins, plastic QFP

Terminal Description

No.	Symbol	I/O	Function
1	SP 3K	I	Spectrum analyzer input terminal (3 kHz)
2	SP 10K	I	Spectrum analyzer input terminal (10 kHz)
3	NC	–	Connected to GND.
4	AVSS	–	GND terminal
5	HUE	O	HUE control output terminal (D/A output)
6	COLOR	O	COLOR control output terminal (D/A output)
7	AVREF1	–	Connected to AVDD.
8	RXD	I	Data receiving terminal of start-stop synchronizing communication with head microcomputer
9	TXD	O	Data transmission terminal of start-stop synchronizing communication with head microcomputer
10	DISP REQ	O	Request output terminal to head microcomputer
11	OSD RES	O	Reset control output terminal to OSD IC
12	OSD DATA	O	Serial data output terminal to OSD IC
13	OSD CLK	O	Serial clock output terminal to OSD IC
14	OSD CS	O	CS control output terminal to OSD IC
15	E²P CS	O	E²PROM CS output terminal
16	E²P IN	I	E²PROM serial data input terminal
17	E²P OUT	O	E²PROM serial data output terminal
18	E²P CLK	O	E²PROM serial clock output terminal
19 ∫ 32 34 ∫ 43	NC	–	Connected to GND.
33	VSS	–	GND terminal
44	BRT	O	BRT control output terminal (PWM)
45 ∫ 49	NC	–	Connected to GND.
50	NAVI SYNC ON	O	NAVI SYNC select output terminal
51	NAVI ON	O	NAVI display (RGB) select output terminal
52	SEL4	I	NAVI RGB connection judgement input terminal (Synchronizing with SEL3.)
53	NC	–	Connected to GND.
54	PKB	I	Parking brake input terminal (H: Brake)
55	CCD ON	O	Control signal output terminal for CCD connection box
56	A-ANT	O	Auto antenna control output terminal (H: Up)
57 ∫ 59	NC	–	Connected to GND.
60	$\overline{\text{RESET}}$	I	Reset input terminal
61	NC	–	Connected to GND.
62	ACC IN	I	ACC CONT input terminal from head microcomputer
63	SPEED	I	Speed pulse input terminal
64 ∫ 66	NC	–	Connected to GND.
67	$\overline{\text{LCD VSYNC}}$	I	V SYNC input terminal (for ending judgement of external synchronizing VRAM fill)
68	VDD	–	Power supply voltage terminal
69 70	X2 X1		Connection terminal for system clock oscillating crystal 4.9152 MHz
71	IC	–	Connected to GND.
72	XT2	–	Not in use.
73	XT1	–	Connected to GND.
74	AVDD	–	Connected to VDD.
75	AVREF0	–	Connected to VDD.
76	SP 60	I	Spectrum analyzer input terminal (60Hz)
77	SP 125	I	Spectrum analyzer input terminal (125Hz)
78	SP 250	I	Spectrum analyzer input terminal (250Hz)
79	SP 500	I	Spectrum analyzer input terminal (500Hz)
80	SP 1K	I	Spectrum analyzer input terminal (1 kHz)

■EXPLOADED VIEW · PARTS LIST

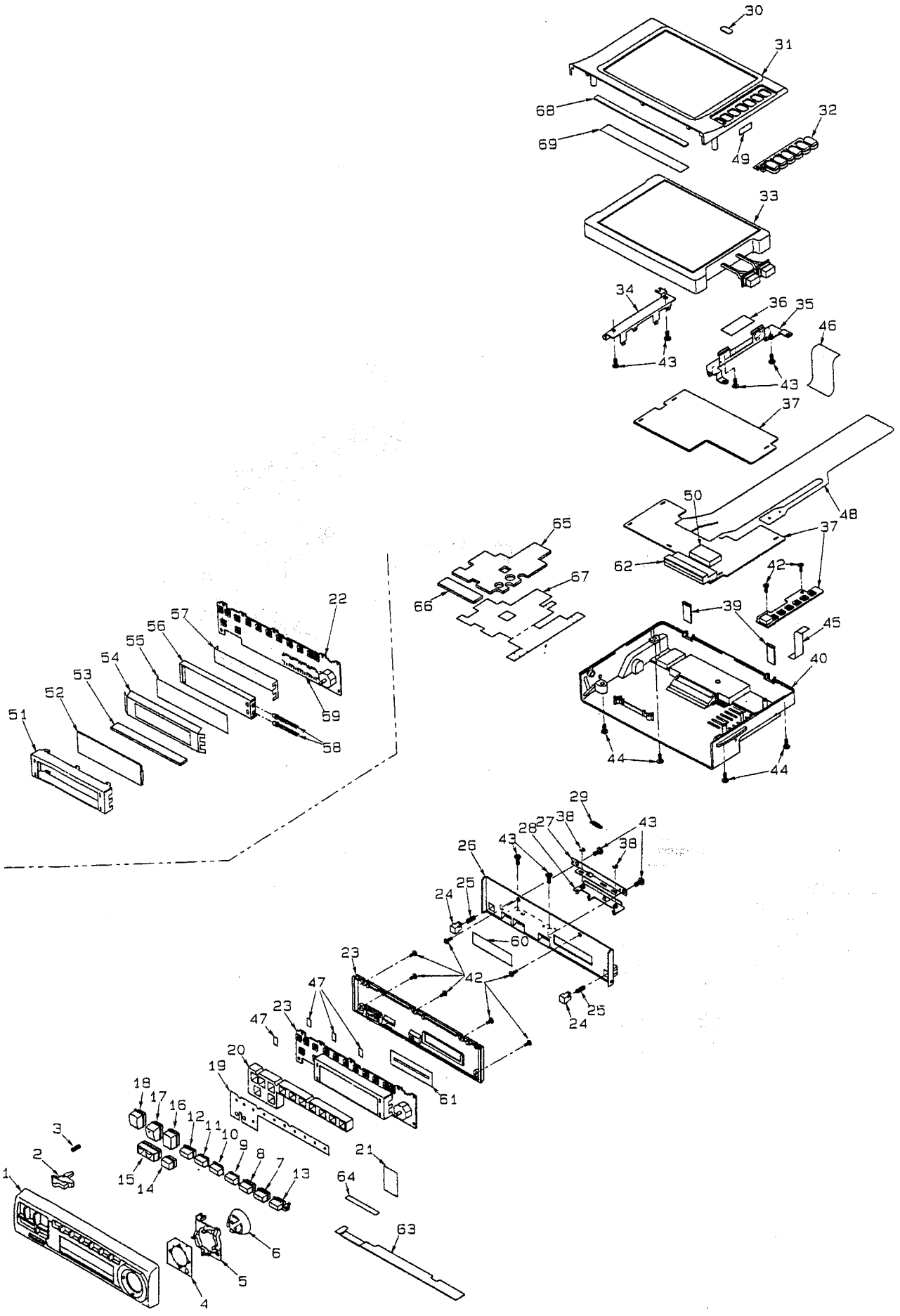
MAIN section



NO.	PART NO.	DESCRIPTION	Q'TY
1	948-0412-00	HOLD PLATE ASSY	1
2	353-0450-00	SHADE C	1
3	335-4927-00	SIDE COVER(R)	1
4	335-4929-00	SIDE COVER(L)	1
5	335-4724-02	SLIDER	1
6	335-4383-02	SLIDE HOLDER	1
7	335-3854-02	RACK	1
8	335-4609-00	FPC CVR	1
9	335-4926-00	FPC CVR	1
10	612-0183-01	SHAFT	1
11	345-7536-00	RUBBER CUSHION	1
12	345-7684-00	RUBBER CUSHION	1
13	353-0427-00	SHADE B	1
14	039-0752-03	MAIN PWB	1
15	311-1657-06	LOWER CASE	1
16	310-1515-05	UPPER CASE	1
17	743-4000-10	E-RING	1

NO.	PART NO.	DESCRIPTION	Q'TY
18	716-1598-00	SCREW(M2.6X5)	2
19	714-2605-81	MACHINE SCREW(M2.6X5)	2
20	714-2605-89	MACHINE SCREW(M2.6X5)	2
21	716-1494-00	SCREW(M2.6X5)	4
22	716-1730-01	P-TIGHT SCREW	2
23	947-0411-00	TRQU BUSH	1
24	335-4938-00	SPACER	1
25	373-0848-00	LCD CVR	1
26	370-5602-03	ESCUTCHEON	1
27	378-0134-00	BADGE	1
28	345-3799-00	RUBBER PART	3
29	286-8819-00	SETPLATE	1
30	750-2796-02	SPRING	2
31	714-5008-41	MACHINE SCREW(M5X8)	2
32	373-0816-00	LCD CVR	1
33	347^1949-00	DUBLE FACE	1

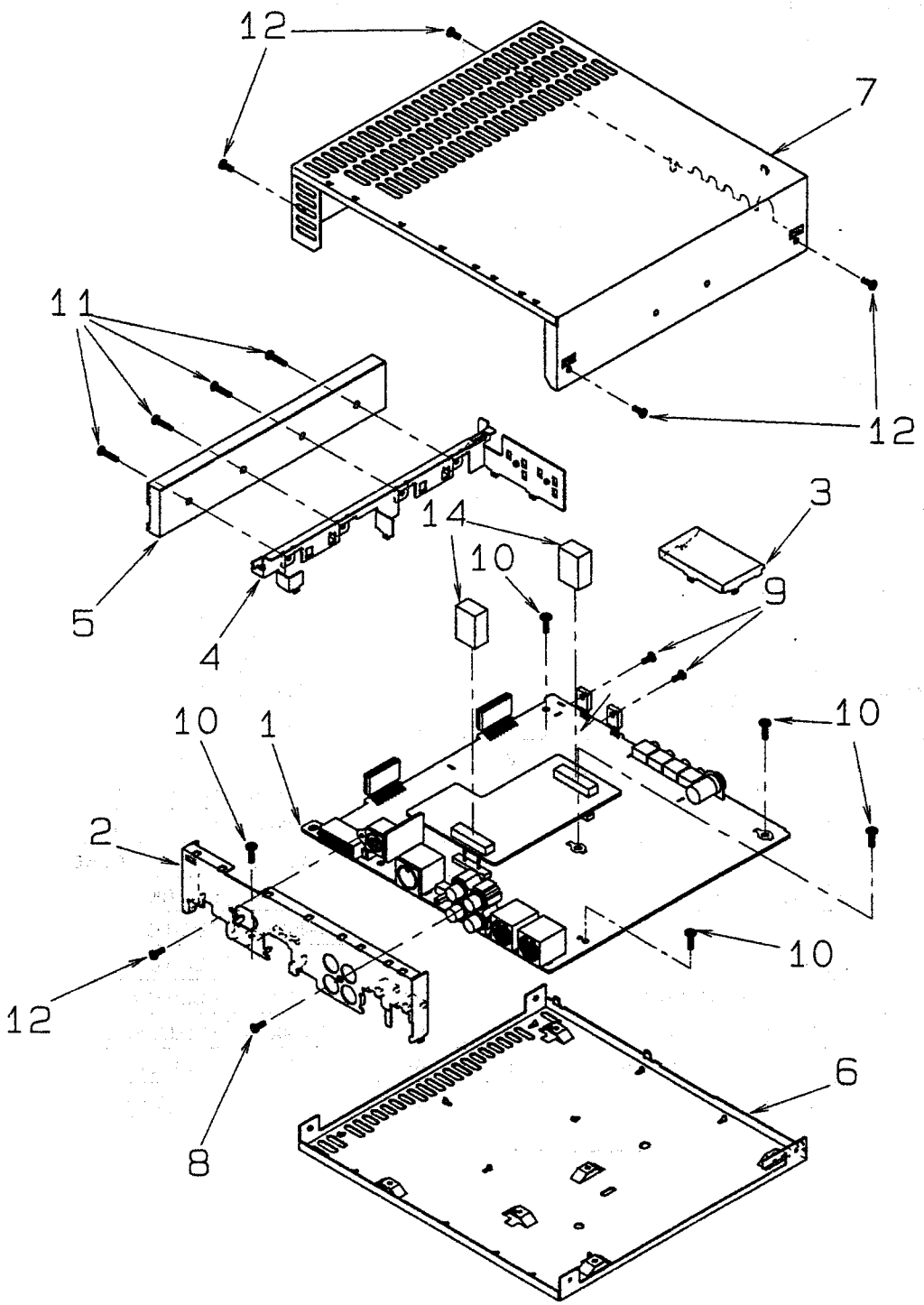
LCD Panel section



NO.	PART NO.	DESCRIPTION	Q'TY
1	370-5601-03	ESCUTCHEON(DCP)	1
2	382-4201-01	BUTTON	1
3	750-3208-00	SPRING	1
4	347-5338-00	SHADE	1
5	335-5139-00	ILLUMI PART	1
6	382-7720-03	BUTTON(LOCK RELEASE)	1
7	382-4203-00	BUTTON(1)	1
8	382-4204-00	BUTTON(2)	1
9	382-4205-00	BUTTON(3)	1
10	382-4206-00	BUTTON(4)	1
11	382-4207-00	BUTTON(5)	1
12	382-4208-00	BUTTON(6)	1
13	382-4209-00	BUTTON(DISP)	1
14	382-4210-01	BUTTON(OPEN)	1
15	382-7721-00	BUTTON(PTY/AF)	1
16	382-4212-00	BUTTON(BAND)	1
17	382-4213-00	BUTTON(FUNC)	1
18	382-4214-01	BUTTON(TA)	1
19	347-5340-00	BUTTON HLDR	1
20	345-7768-00	BUTTON HLDR	1
21	347-2061-00	PAPER PART	1
22	039-0986-00	DCP PWB	1
23	335-5149-00	BACK PLATE	1
24	335-5147-00	EJECTOR	2
25	750-3218-00	EJ SPRING	2
26	335-5196-00	DCP CVR	1
27	331-1931-00	HOOK HKDR	1
28	331-1932-00	HOOK PLATE	1
29	750-2506-00	SPRING	1
30	335-5214-00	IR FILTER	1
31	373-0815-03	DIAL CVR(MONITOR)	1
32	382-4202-01	BUTTON(CONT.)	1
33	379-1053-00	INDICATOR(MONITOR)	1
34	331-1934-00	LCD HOLDER(L)	1
35	331-1933-00	LCD HOLDER(R)	1

NO.	PART NO.	DESCRIPTION	Q'TY
36	347-5339-00	SHADE(LCD-H)	1
37	039-0785-00	LCD PWB	1
38	743-1500-20	E-RING	2
39	335-4384-00	ROCK	2
40	377-0205-02	DIAL SUPPORT	1
41	738-2030-11	PRECISION SCREW	2
42	716-0872-11	PAD SCREW	9
43	716-0645-00	SCREW	8
44	716-1730-01	P TIGHT SCREW	4
45	816-2411-00	FLAT CABLE	1
46	816-2410-00	FLAT CABLE	1
47	347-1561-00	DOUBLE FACE	4
48	039-0740-00	FPC	1
49	347-5355-00	PAPER PART	1
50	331-1969-00	SHIELD CASE	1
51	331-1930-00	LCD CVR	1
52	379-1092-41	INDICATOR(FRONT)	1
53	345-7801-00	RUBBER CONNECTOR	1
54	347-5336-00	FILM	1
55	347-5337-00	CCS FILM	1
56	335-5138-00	ILLUMI PLATE	1
57	347-5335-00	REFLECTOR	1
58	001-7027-00	DIODE	2
59	076-0531-00	PLUG	1
60	347-5187-01	GUIDE LABEL	1
61	347-5358-00	SHADE(CON)	1
62	074-1136-00	OUTLET SOCKET	1
63	331-2043-00	ES BRKT	1
64	347-4063-00	CUSHION TAPE	1
65	345-7944-00	CUSHION	1
66	345-7953-00	CUSHION	1
67	347-5486-00	SHIELD SHEET	1
68	345-7945-00	CUSHION	1
69	347-5487-00	DOUBLE FACE	1

Tuner amp section



NO.	PART NO.	DESCRIPTION	Q'TY
1	039-0955-00	TUNER PWB	1
2	331-2120-00	FRONT PLATE	1
3	331-1920-00	SHIELD CASE	1
4	331-1918-00	IC HOLDER	1
5	313-1668-00	HEAT SINK	1
6	331-1705-00	LOWER CASE	1
7	310-1625-00	UPPER CASE	1

NO.	PART NO.	DESCRIPTION	Q'TY
8	702-3008-81	TAP SCREW	1
9	714-3006-81	MACHINE SCREW(M3×5)	2
10	716-0878-00	IT SCREW(M2.6×5)	5
11	714-2612-81	MACHINE SCREW(M2.6×12)	4
12	714-2605-81	MACHINE SCREW(M2.6×5)	5
13	345-4263-00	RUBBER PART	1
14	345-7946-00	CUSION	2

■ELECTRICAL PARTS LIST

Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

LCD PWB

REF No.	PART No.	DESCRIPTION
C 666	042-0522-07	16V3.3 μF
C 667	163-1073-31	16V100 μF
C 668	178-1522-78	1500pF
C 669	178-2245-79	0.22 μF
C 670	178-2212-78	220pF
C 671	178-2222-78	2200pF
C 672	043-0499-51	0.1 μF
C 673	043-0500-51	22pF
C 674	043-0500-51	22pF
C 675	042-0397-00	16V1 μF TAN
C 676	178-1055-79	1 μF
C 677	178-1022-78	1000pF
C 678	176-1011-00	100pF CH
C 679	176-1011-00	100pF CH
D 601	001-0516-00	MA111
D 602	001-0608-00	D1FS4
D 603	001-0608-00	D1FS4
D 604	001-0516-00	MA111
D 605	001-0516-00	MA111
D 606	001-0608-00	D1FS4
D 607	001-0528-48	MA8091-H
D 608	001-0516-00	MA111
D 609	001-0506-00	DAN202K
D 610	001-0518-04	AA1101W
F 601	051-1570-10	ICP-F15
IC 601	051-1619-00	FA7610N
IC 602	051-5307-00	IR3Y24
IC 603	051-1292-00	NJM4565M-D
IC 604	051-1250-00	TC4S66F
IC 605	051-1250-00	TC4S66F
IC 606	051-7214-38	MC74HC595AF
IC 607	051-3601-91	TL494CNS
IR 601	060-4007-00	GP1U101X
J 601	074-1048-70	
J 602	074-1049-63	
J 603	074-1048-65	
J 607	076-0478-53	
L 601	010-2271-00	100 μH
L 602	010-2174-24	100 μH
L 603	010-2271-00	100 μH
L 604	010-2174-24	100 μH
L 605	010-2199-30	33 μH J
L 607	010-2199-33	56 μH J
L 608	010-2199-33	56 μH J
L 609	010-4013-00	806PN-504
L 610	010-2165-00	100 μH
L 611	010-2165-00	100 μH
P 604	076-0529-02	
P 605	076-0529-02	
Q 601	102-2873-00	2SC2873
Q 602	102-2712-00	2SC2712
Q 603	125-2004-02	RN1402
Q 604	125-2004-02	RN1402
Q 605	125-2004-02	RN1402
Q 606	125-2004-02	RN1402
Q 607	102-3326-00	2SC3326
Q 608	100-1738-00	2SA1738
Q 609	125-2004-02	RN1402
Q 610	125-2004-02	RN1402
Q 611	125-2004-02	RN1402
Q 612	100-1738-00	2SA1738
Q 613	125-0002-03	RN2403
Q 614	100-1213-00	2SA1213
Q 615	125-2004-02	RN1402
Q 616	125-2004-02	RN1402
C 601	163-3363-40	25V33 μF
C 602	163-4753-50	35V4.7 μF
C 603	176-1021-00	1000pF CH
C 604	163-1063-50	35V10 μF
C 605	176-2221-00	2200pF CH
C 606	042-0528-00	35V15 μF
C 607	163-4763-30	16V47 μF
C 608	042-0452-01	10V220 μF
C 609	163-1073-10	6.3V100 μF
C 610	042-0528-00	35V15 μF
C 611	163-4763-30	16V47 μF
C 612	042-0528-00	35V15 μF
C 613	178-1055-79	1 μF
C 614	178-1032-78	0.01 μF
C 615	178-1032-78	0.01 μF
C 616	178-1032-78	0.01 μF
C 617	178-1055-79	1 μF
C 618	178-1032-78	0.01 μF
C 619	178-1032-78	0.01 μF
C 620	178-3322-78	3300pF
C 621	178-1032-78	0.01 μF
C 622	178-1032-78	0.01 μF
C 623	163-1053-60	50V1 μF
C 624	178-4745-79	0.47 μF
C 625	178-4745-79	0.47 μF
C 626	178-4745-79	0.47 μF
C 627	042-0452-01	10V220 μF
C 628	178-1055-79	1 μF
C 629	163-3353-61	50V3.3 μF
C 630	178-1032-78	0.01 μF
C 631	176-5601-00	56pF CH
C 632	178-2222-78	2200pF
C 633	178-2235-79	0.022 μF
C 634	163-1063-30	16V10 μF
C 635	176-2201-00	22pF CH
C 636	176-3301-00	33pF CH
C 637	178-1045-79	0.1 μF
C 639	178-6812-78	680pF
C 640	176-5601-00	56pF CH
C 641	178-1032-78	0.01 μF
C 642	178-4732-78	0.047 μF
C 643	178-1032-78	0.01 μF
C 644	176-8201-00	82pF CH
C 645	178-1032-78	0.01 μF
C 646	178-1055-79	1 μF
C 647	178-1045-79	0.1 μF
C 648	176-8097-00	8pF CH
C 649	176-8097-00	8pF CH
C 650	178-1032-78	0.01 μF
C 651	163-4743-60	50V0.47 μF
C 652	178-1055-79	1 μF
C 653	178-1055-79	1 μF
C 654	178-1055-79	1 μF
C 655	163-4763-30	16V47 μF
C 656	178-1045-79	0.1 μF
C 657	178-1045-79	0.1 μF
C 658	163-1063-30	16V10 μF
C 659	163-1063-30	16V10 μF
C 660	163-1063-50	35V10 μF
C 662	178-1045-79	0.1 μF
C 663	178-1045-79	0.1 μF
C 664	042-0522-08	16V10 μF
C 665	178-1055-79	1 μF
Q 617	125-2036-00	FB1J3P
Q 618	125-2036-00	FB1J3P
Q 619	125-2004-03	RN1403
Q 620	101-1204-61	2SB1204R.S.T
Q 621	102-2873-00	2SC2873
Q 622	102-2873-00	2SC2873
R 601	117-6841-10	1/10W 680kΩ
R 602	117-1841-10	1/10W 180kΩ
R 603	117-3931-10	1/10W 39kΩ
R 604	117-1001-10	1/10W 10Ω
R 605	117-2221-10	1/10W 2.2kΩ
R 606	117-2231-10	1/10W 22kΩ
R 607	117-6841-10	1/10W 680kΩ
R 608	117-3311-10	1/10W 330Ω
R 609	117-3331-10	1/10W 33kΩ
R 610	117-1531-10	1/10W 15kΩ
R 611	117-1531-10	1/10W 15kΩ
R 612	117-1031-10	1/10W 10kΩ
R 613	117-4721-10	1/10W 4.7kΩ
R 614	117-5611-10	1/10W 560Ω
R 615	117-2221-10	1/10W 2.2kΩ
R 616	117-4731-10	1/10W 47kΩ
R 617	117-4731-10	1/10W 47kΩ
R 618	117-4731-10	1/10W 47kΩ
R 619	117-4731-10	1/10W 47kΩ
R 620	117-4731-10	1/10W 47kΩ
R 621	117-4731-10	1/10W 47kΩ
R 622	117-5631-10	1/10W 56kΩ
R 623	117-2231-10	1/10W 22kΩ
R 624	117-2731-10	1/10W 27kΩ
R 625	117-2731-10	1/10W 27kΩ
R 626	117-2231-10	1/10W 22kΩ
R 627	117-2231-10	1/10W 22kΩ
R 628	117-2231-10	1/10W 22kΩ
R 629	117-3931-10	1/10W 39kΩ
R 630	117-2231-10	1/10W 22kΩ
R 631	117-1011-10	1/10W 100Ω
R 632	117-1011-10	1/10W 100Ω
R 633	117-1011-10	1/10W 100Ω
R 634	117-1021-10	1/10W 1kΩ
R 635	117-1011-10	1/10W 100Ω
R 636	117-2231-10	1/10W 22kΩ
R 637	117-4711-10	1/10W 470Ω
R 638	117-4711-10	1/10W 470Ω
R 639	117-4711-10	1/10W 470Ω
R 640	117-4711-10	1/10W 470Ω
R 641	032-0098-03	1/10W 18kΩ
R 642	117-2221-10	1/10W 2.2kΩ
R 643	117-3341-10	1/10W 330kΩ
R 645	117-3341-10	1/10W 330kΩ
R 646	117-2731-10	1/10W 27kΩ
R 647	117-2431-10	1/10W 24kΩ
R 648	117-5621-10	1/10W 5.6kΩ
R 649	117-1021-10	1/10W 1kΩ
R 650	117-1021-10	1/10W 1kΩ
R 651	117-5621-10	1/10W 5.6kΩ
R 652	117-5621-10	1/10W 5.6kΩ
R 653	117-6821-10	1/10W 6.8kΩ
R 654	117-4721-10	1/10W 4.7kΩ
R 655	117-3021-10	1/10W 3kΩ
R 656	117-2021-10	1/10W 2kΩ
R 657	117-3351-15	1/10W 3.3MΩ
R 658	117-6821-10	1/10W 6.8kΩ
R 659	117-1051-10	1/10W 1MΩ
R 660	117-5621-10	1/10W 5.6kΩ
R 661	117-1521-10	1/10W 1.5kΩ
R 662	117-3311-10	1/10W 330Ω
R 663	117-2221-10	1/10W 2.2kΩ
R 664	117-6811-10	1/10W 680Ω
R 665	117-8221-10	1/10W 8.2kΩ
R 666	117-1521-10	1/10W 1.5kΩ
R 667	117-1011-10	1/10W 100Ω
R 668	117-1011-10	1/10W 100Ω
R 669	117-5621-10	1/10W 5.6kΩ
R 670	117-1011-10	1/10W 100Ω
R 671	117-1031-10	1/10W 10kΩ
R 672	117-4731-10	1/10W 47kΩ
R 673	117-2231-10	1/10W 22kΩ
R 674	117-1031-10	1/10W 10kΩ
R 675	118-1021-10	1/2W 1kΩ
R 676	118-1021-10	1/2W 1kΩ
R 677	117-1021-10	1/10W 1kΩ
R 678	117-2231-10	1/10W 22kΩ
R 679	117-4711-10	1/10W 470Ω
R 680	117-2221-10	1/10W 2.2kΩ
R 681	117-3321-10	1/10W 3.3kΩ
R 682	117-5621-10	1/10W 5.6kΩ
R 683	117-1231-10	1/10W 12kΩ
R 684	117-2231-10	1/10W 22kΩ
R 685	117-3921-10	1/10W 3.9kΩ
R 686	117-2211-10	1/10W 220Ω
R 687	118-6811-10	1/2W 680Ω
R 688	117-4791-10	1/10W 4.7Ω
R 689	118-1021-10	1/2W 1kΩ
R 690	118-1021-10	1/2W 1kΩ
R 691	118-4711-10	1/2W 470Ω
R 692	117-2221-10	1/10W 2.2kΩ
R 693	117-2711-10	1/10W 270Ω
R 694	117-2711-10	1/10W 270Ω
R 695	117-2711-10	1/10W 270Ω
R 696	117-2711-10	1/10W 270Ω
R 697	117-4701-10	1/10W 47Ω
S 602	013-6501-01	
S 603	013-6501-01	
S 604	013-6501-01	
S 605	013-6501-01	
S 606	013-6501-01	
S 607	013-6501-01	
T 601	007-1139-90	
T 602	007-1140-00	
VR 601	012-4738-06	10kΩ
VR 602	012-5123-02	1kΩ
VR 603	012-5123-08	33kΩ
VR 604	012-5123-08	33kΩ
VR 605	012-5123-08	33kΩ
VR 606	012-5123-08	33kΩ
VR 607	012-5123-08	33kΩ
VR 608	012-5123-08	33kΩ
VR 609	012-5123-08	33kΩ
X 601	061-1078-00	3.5795MHz
X 602	061-3036-00	4.433619MHz

Main PWB

REF No.	PART No.	DESCRIPTION
C 440	176-1801-00	18pF CH
C 441	176-1801-00	18pF CH
C 442	042-0472-00	10V47 μF
C 443	178-1042-78	0.1 μF
C 444	178-1042-78	0.1 μF
C 445	163-1073-31	16V100 μF
C 446	178-1042-78	0.1 μF
C 447	163-1073-31	16V100 μF
C 448	178-1042-78	0.1 μF
C 500	178-1042-78	0.1 μF
C 501	178-1042-78	0.1 μF
C 502	178-1042-78	0.1 μF
C 504	178-1042-78	0.1 μF
C 505	178-1042-78	0.1 μF
C 506	178-1042-78	0.1 μF
C 507	178-1042-78	0.1 μF
C 508	042-0472-00	10V47 μF
C 509	178-1042-78	0.1 μF
C 510	178-1042-78	0.1 μF
C 511	178-1042-78	0.1 μF
C 512	178-1042-78	0.1 μF
C 513	178-1042-78	0.1 μF
C 514	178-1042-78	0.1 μF
C 515	042-0472-00	10V47 μF
C 516	178-1042-78	0.1 μF
C 517	178-1042-78	0.1 μF
C 518	176-1007-00	10pF CH
C 519	176-1007-00	10pF CH
C 520	176-3901-00	39pF CH
C 521	176-4701-00	47pF CH
C 550	177-1052-78	1 μF
C 551	184-2273-21	10V220 μF
C 552	177-1052-78	1 μF
C 553	184-2273-21	10V220 μF
C 554	177-1052-78	1 μF
C 555	184-2273-21	10V220 μF
C 556	177-1052-78	1 μF
C 557	184-2273-21	10V220 μF
C 558	178-1042-78	0.1 μF
C 559	176-1011-00	100pF CH
C 560	176-1011-00	100pF CH
C 561	176-1011-00	100pF CH
C 562	176-1011-00	100pF CH
C 801	178-1042-78	0.1 μF
C 802	183-1063-32	16V10 μF
C 803	176-1811-00	180pF CH
C 804	176-1811-00	180pF CH
C 805	183-4763-32	16V47 μF
C 806	183-1063-32	16V10 μF
C 807	183-1063-32	16V10 μF
C 808	183-1063-32	16V10 μF
C 809	184-3383-41	25V3300 μF
C 810	183-1063-32	16V10 μF
C 811	178-2212-78	220pF
C 812	178-2212-78	220pF
C 813	178-1042-78	0.1 μF
C 814	178-1042-78	0.1 μF
C 815	183-1053-62	50V1 μF
C 816	042-0473-00	16V10 μF NX
C 817	042-0473-00	16V10 μF NX
C 818	183-1063-32	16V10 μF
C 819	183-1063-31	16V10 μF
C 820	183-1063-32	16V10 μF
C 821	183-1063-32	16V10 μF
C 822	178-1042-78	0.1 μF
C 823	178-1042-78	0.1 μF
C 824	183-1063-32	16V10 μF
C 825	183-1063-32	16V10 μF
C 826	183-2263-32	16V22 μF
C 827	183-2263-32	16V22 μF
C 828	183-4763-12	6.3V47 μF
C 829	183-4763-12	6.3V47 μF
C 830	176-2701-00	27pF CH
C 831	176-2701-00	27pF CH
C 832	178-6832-78	0.068 μF
C 833	178-6832-78	0.068 μF
C 834	178-6822-78	6800pF
C 835	178-6822-78	6800pF
C 836	178-1042-78	0.1 μF
C 837	183-1063-32	16V10 μF
C 838	178-6822-78	6800pF
C 839	178-6822-78	6800pF
C 840	183-1063-32	16V10 μF
C 841	183-1063-32	16V10 μF
C 842	183-1063-32	16V10 μF
C 843	182-1073-32	16V100 μF
C 844	178-1032-78	0.01 μF
C 845	042-0473-00	16V10 μF NX
C 846	042-0473-00	16V10 μF NX
C 847	042-0473-00	16V10 μF
C 848	042-0473-00	16V10 μF NX
C 849	183-4753-34	16V4.7 μF
C 850	176-1211-00	120pF CH
C 851	184-4763-41	25V47 μF
C 852	176-1211-00	120pF CH
C 853	183-4753-34	16V4.7 μF
C 854	183-1063-32	16V10 μF
C 855	042-0473-00	16V10 μF
C 856	042-0473-00	16V10 μF NX
C 857	042-0473-00	16V10 μF NX
C 858	042-0473-00	16V10 μF NX
C 859	176-2701-00	27pF CH
C 860	178-1022-78	1000pF
C 861	176-2701-00	27pF CH
C 862	183-1063-32	16V10 μF
C 864	178-1022-78	1000pF
C 865	042-0473-00	16V10 μF NX
C 866	042-0473-00	16V10 μF
C 867	178-1042-78	0.1 μF
C 868	163-1053-60	50V1 μF
C 869	163-1053-60	50V1 μF
C 870	163-1053-60	50V1 μF
C 871	163-1063-30	16V10 μF
C 872	178-1042-78	0.1 μF
C 873	163-1053-60	50V1 μF
C 874	163-1063-30	16V10 μF
C 875	184-4773-31	16V470 μF
C 876	163-1063-30	16V10 μF
C 877	178-1042-78	0.1 μF
C 878	178-1032-78	0.01 μF
C 879	178-1032-78	0.01 μF
C 880	163-1053-60	50V1 μF
C 881	163-1073-31	16V100 μF
C 882	163-1073-31	16V100 μF
C 883	176-2201-00	22pF CH
C 884	176-2201-00	22pF CH
C 885	176-3301-00	33pF CH
C 886	176-4096-00	4pF CH
C 887	163-1053-60	50V1 μF
C 888	178-1022-78	1000pF
C 889	178-1022-78	1000pF
C 890	178-1022-78	1000pF
C 891	163-1063-30	16V10 μF
C 892	178-1022-78	1000pF
C 893	163-4753-50	35V4.7 μF
C 894	182-1073-32	16V100 μF
C 895	178-1022-78	1000pF
C 896	178-1032-78	0.01 μF
C 897	178-1022-78	1000pF
C 898	163-2253-60	50V2.2 μF
C 899	178-1022-78	1000pF
C 900	178-1032-78	0.01 μF
C 901	172-1041-11	0.1 μF
C 902	178-1032-78	0.01 μF
C 903	178-1042-78	0.1 μF
C 904	176-2701-00	27pF CH
C 905	176-2701-00	27pF CH
C 906	182-1063-33	16V10 μF
C 907	042-0186-01	35V1 μF
C 908	178-1032-78	0.01 μF
C 909	042-0473-00	16V10 μF
C 910	042-0473-00	16V10 μF NX
C 911	172-1041-11	0.1 μF
CCT500	050-0122-58	470Ω
CCT501	050-0122-58	470Ω
CCT502	050-0122-58	470Ω
CCT503	050-0122-58	470Ω
CCT504	050-0122-01	47kΩx4
CCT505	050-0122-01	47kΩx4
CCT506	050-0122-58	470Ω
D 505	001-0367-00	1SS226
D 506	001-0367-00	1SS226
D 507	001-0367-00	1SS226
D 508	001-0367-00	1SS226
D 509	001-0516-00	MA111
D 509	001-0541-00	MA157
D 801	001-0516-00	MA111
D 801	001-0541-00	MA157
D 802	001-0360-00	S5566B
D 803	001-0377-49	MA4100L
D 803	001-0400-49	HZS10JB1
D 804	001-4900-06	UZMA-8.2
D 805	001-4900-06	UZMA-8.2
D 806	001-4900-06	UZMA-8.2
D 807	001-0421-27	MTZJ12
D 807	001-0423-27	MA4120
D 808	001-0354-00	MA151WK
D 808	001-0356-00	1SS184
D 808	001-0506-00	DAN202K
D 809	001-0516-00	MA111

REF No.	PART No.	DESCRIPTION
D 809	001-0541-00	MA157
D 810	001-0516-00	MA111
D 810	001-0541-00	MA157
D 811	001-0528-27	MA8047H
D 812	001-0516-00	MA111
D 812	001-0626-00	1A2
IC 402	052-7021-10	μPD78P058FGC-060-3B9
IC 500	051-1965-00	MB90076BPF-G-BND
IC 501	052-6019-10	NSM534001C-72GS-KRI
IC 502	051-0921-05	TC74HC32AF
IC 502	051-7219-08	SN74HC32NSLE
IC 503	051-1738-05	TC7S08F
IC 503	051-1738-35	SC7S08F
IC 504	051-1478-05	TC74HC4053AF
IC 505	051-0682-05	TC74HC74AF
IC 506	051-5306-90	MM1117XF
IC 507	051-1855-05	TC7W14F
IC 508	051-1250-00	TC4S66F
IC 508	051-1250-30	SC14S66F
IC 509	051-1250-00	TC4S66F
IC 509	051-1250-30	SC14S66F
IC 510	051-9405-08	X25160SI-L
IC 510	051-9405-38	NM25C160EM8X
IC 801	051-1292-00	NJM4565M-D
IC 802	051-5008-00	M62419FP
IC 803	051-1292-00	NJM4565M-D
IC 804	051-0792-00	TA78DS05BP
IC 805	051-1292-00	NJM4565M-D
IC 806	051-1292-00	NJM4565M-D
IC 807	051-1917-00	BA7603F
IC 808	051-1743-00	GP1S51
IC 809	051-1743-00	GP1S51
IC 810	051-1621-00	MM1031XM
IC 811	052-6021-10	μPD78P058FGC-059-3B9
IC 812	051-0160-06	SN74LS07NS-L
IC 812	051-7400-06	HD74LS07FP
IC 813	051-0410-05	TC4052BF
IC 813	051-0410-35	MC14052BF
IC 814	051-1014-10	TA7291S
IC 815	051-0869-05	MB3771PF(-G)
IC 815	051-0869-55	NJM2103M
IC 816	051-1292-00	NJM4565M-D
J 400	074-1049-30	
J 401	074-0881-06	
J 402	076-0353-06	
J 403	074-0892-08	
J 801	075-0339-00	
J 802	075-0339-00	
J 804	074-1030-00	
J 805	074-1126-10	
J 806	074-1134-00	
L 400	010-2279-00	4.7 μH
L 500	010-2279-00	4.7 μH
L 501	010-2279-00	4.7 μH
L 502	010-2329-00	5.6 μH
L 801	010-2330-36	220 μH
L 802	010-2279-00	4.7 μH
P 801	076-0324-04	
Q 400	100-1037-00	2SA1037
Q 400	100-1162-00	2SA1162
Q 401	102-2412-00	2SC2412
Q 401	102-2712-00	2SC2712
Q 401	103-0601-00	2SD601A
Q 402	102-2412-00	2SC2412
Q 402	102-2712-00	2SC2712
Q 402	103-0601-00	2SD601A
Q 404	125-2004-03	RN1403
Q 404	125-2005-02	UN2212
Q 405	125-2004-02	RN1402
Q 405	125-2005-01	UN2211
Q 801	102-2412-00	2SC2412

REF No.	PART No.	DESCRIPTION
Q 801	102-2712-00	2SC2712
Q 801	103-0601-00	2SD601A
Q 802	100-1037-00	2SA1037
Q 802	100-1162-00	2SA1162
Q 803	101-1143-00	2SB1143
Q 806	100-1431-00	2SA1431
Q 807	125-2004-07	RN1407
Q 807	125-2020-07	DTC114YK
Q 808	100-1431-00	2SA1431
Q 809	125-2004-03	RN1403
Q 809	125-2005-02	UN2212
Q 810	102-3668-00	2SC3668
Q 811	100-1431-00	2SA1431
Q 812	125-2004-03	RN1403
Q 812	125-2005-02	UN2212
Q 813	100-1213-00	2SA1213
Q 813	100-1797-00	2SA1797
Q 813	101-1123-00	2SB1123
Q 814	125-2004-03	RN1403
Q 814	125-2005-02	UN2212
Q 818	102-2412-00	2SC2412
Q 818	102-2712-00	2SC2712
Q 818	103-0601-00	2SD601A
Q 819	102-2412-00	2SC2412
Q 819	102-2712-00	2SC2712
Q 819	103-0601-00	2SD601A
Q 820	125-0001-93	UN2113
Q 820	125-0002-04	RN2404
Q 820	125-0014-94	DTA144EK
Q 821	102-2412-00	2SC2412
Q 821	102-2712-00	2SC2712
Q 821	103-0601-00	2SD601A
Q 822	100-1037-00	2SA1037
Q 822	100-1162-00	2SA1162
Q 823	102-2412-00	2SC2412
Q 823	102-2712-00	2SC2712
Q 823	103-0601-00	2SD601A
Q 824	102-2412-00	2SC2412
Q 824	102-2712-00	2SC2712
Q 824	103-0601-00	2SD601A
Q 825	125-2004-03	RN1403
Q 825	125-2005-02	UN2212
Q 826	100-1037-00	2SA1037
Q 826	100-1162-00	2SA1162
Q 827	102-2412-00	2SC2412
Q 827	102-2712-00	2SC2712
Q 827	103-0601-00	2SD601A
Q 828	102-2412-00	2SC2412
Q 828	102-2712-00	2SC2712
Q 828	103-0601-00	2SD601A
Q 829	102-3326-00	2SC3326
Q 829	103-1306-00	2SD1306
Q 830	102-3326-00	2SC3326
Q 830	103-1306-00	2SD1306
Q 831	102-3422-00	2SC3422
Q 831	103-1683-00	2SD1683
Q 832	125-2004-03	RN1403
Q 832	125-2005-02	UN2212
Q 833	102-2458-00	2SC2458
Q 833	102-2785-00	2SC2785
Q 834	102-2412-00	2SC2412
Q 834	102-2712-00	2SC2712
Q 834	103-0601-00	2SD601A
Q 835	125-2004-03	RN1403
Q 835	125-2005-02	UN2212
Q 836	102-3326-00	2SC3326
Q 836	103-1306-00	2SD1306
Q 837	102-3326-00	2SC3326
Q 837	103-1306-00	2SD1306
Q 838	102-2412-00	2SC2412
Q 838	102-2712-00	2SC2712
Q 838	103-0601-00	2SD601A
Q 839	102-3326-00	2SC3326
Q 839	103-1306-00	2SD1306
Q 840	102-3326-00	2SC3326

REF No.	PART No.	DESCRIPTION
Q 840	103-1306-00	2SD1306
R 440	117-1511-10	1/10W 150Ω
R 441	117-1021-10	1/10W 1kΩ
R 442	117-1021-10	1/10W 1kΩ
R 443	117-4711-10	1/10W 470Ω
R 444	117-4711-10	1/10W 470Ω
R 445	117-4711-10	1/10W 470Ω
R 446	117-4711-10	1/10W 470Ω
R 447	117-1031-10	1/10W 10kΩ
R 448	117-1031-10	1/10W 10kΩ
R 449	117-4731-10	1/10W 47kΩ
R 450	117-4731-10	1/10W 47kΩ
R 451	117-1021-10	1/10W 1kΩ
R 452	117-1021-10	1/10W 1kΩ
R 453	117-4721-10	1/10W 4.7kΩ
R 454	117-1031-10	1/10W 10kΩ
R 455	117-4721-10	1/10W 4.7kΩ
R 456	117-1031-10	1/10W 10kΩ
R 460	117-4721-10	1/10W 4.7kΩ
R 461	117-4721-10	1/10W 4.7kΩ
R 462	117-4721-10	1/10W 4.7kΩ
R 463	117-4721-10	1/10W 4.7kΩ
R 464	117-4741-10	1/10W 470kΩ
R 465	117-4741-10	1/10W 470kΩ
R 466	117-4731-10	1/10W 47kΩ
R 500	117-4721-10	1/10W 4.7kΩ
R 501	117-1021-10	1/10W 1kΩ
R 502	117-4711-10	1/10W 470Ω
R 503	117-1511-10	1/10W 150Ω
R 504	117-1511-10	1/10W 150Ω
R 505	117-1511-10	1/10W 150Ω
R 506	117-5611-10	1/10W 560Ω
R 507	117-5611-10	1/10W 560Ω
R 508	117-5611-10	1/10W 560Ω
R 509	117-4711-10	1/10W 470Ω
R 510	117-3921-10	1/10W 3.9kΩ
R 511	117-5611-10	1/10W 560Ω
R 512	117-5611-10	1/10W 560Ω
R 513	117-5611-10	1/10W 560Ω
R 514	117-5611-10	1/10W 560Ω
R 520	117-4711-10	1/10W 470Ω
R 521	117-4711-10	1/10W 470Ω
R 522	117-4711-10	1/10W 470Ω
R 523	117-4711-10	1/10W 470Ω
R 524	117-4711-10	1/10W 470Ω
R 525	117-4711-10	1/10W 470Ω
R 526	117-4711-10	1/10W 470Ω
R 527	117-4711-10	1/10W 470Ω
R 528	117-1011-10	1/10W 100Ω
R 529	117-1031-10	1/10W 10kΩ
R 530	117-1021-10	1/10W 1kΩ
R 531	117-4731-10	1/10W 47kΩ
R 532	117-4731-10	1/10W 47kΩ
R 533	117-4731-10	1/10W 47kΩ
R 534	117-4731-10	1/10W 47kΩ
R 535	117-1031-10	1/10W 10kΩ
R 536	117-1011-10	1/10W 100Ω
R 537	117-4711-10	1/10W 470Ω
R 550	111-7501-91	1/4WS 75Ω
R 551	117-5631-10	1/10W 56kΩ
R 552	117-1531-10	1/10W 15kΩ
R 553	111-7501-91	1/4WS 75Ω
R 554	117-5631-10	1/10W 56kΩ
R 555	117-1531-10	1/10W 15kΩ
R 556	111-7501-91	1/4WS 75Ω
R 557	117-5631-10	1/10W 56kΩ
R 558	117-1531-10	1/10W 15kΩ
R 559	111-7501-91	1/4WS 75Ω
R 560	117-4711-10	1/10W 470Ω
R 561	117-4711-10	1/10W 470Ω
R 562	117-5611-10	1/10W 560Ω
R 801	111-1021-91	1/4WS 1kΩ
R 802	117-5631-10	1/10W 56kΩ
R 803	117-3321-10	1/10W 3.3kΩ
R 804	117-5631-10	1/10W 56kΩ

REF No.	PART No.	DESCRIPTION
R 805	117-5631-10	1/10W 56kΩ
R 806	117-5631-10	1/10W 56kΩ
R 807	117-3321-10	1/10W 3.3kΩ
R 808	117-4721-10	1/10W 4.7kΩ
R 809	117-5631-10	1/10W 56kΩ
R 810	117-6831-10	1/10W 68kΩ
R 811	117-6831-10	1/10W 68kΩ
R 812	117-1021-10	1/10W 1kΩ
R 813	111-2231-91	1/4WS 22kΩ
R 814	117-5631-10	1/10W 56kΩ
R 815	117-5631-10	1/10W 56kΩ
R 816	117-5631-10	1/10W 56kΩ
R 817	117-4721-10	1/10W 4.7kΩ
R 818	117-4721-10	1/10W 4.7kΩ
R 819	117-2231-10	1/10W 22kΩ
R 820	117-2231-10	1/10W 22kΩ
R 821	117-1531-10	1/10W 15kΩ
R 822	117-1531-10	1/10W 15kΩ
R 823	117-8221-10	1/10W 8.2kΩ
R 824	117-8221-10	1/10W 8.2kΩ
R 825	117-1801-10	1/10W 18Ω
R 826	117-8221-10	1/10W 8.2kΩ
R 827	117-8221-10	1/10W 8.2kΩ
R 829	117-8221-10	1/10W 8.2kΩ
R 830	117-8221-10	1/10W 8.2kΩ
R 831	117-1531-10	1/10W 15kΩ
R 832	117-1531-10	1/10W 15kΩ
R 833	117-1531-10	1/10W 15kΩ
R 834	117-1531-10	1/10W 15kΩ
R 835	117-1531-10	1/10W 15kΩ
R 836	117-1531-10	1/10W 15kΩ
R 837	117-1531-10	1/10W 15kΩ
R 838	117-1531-10	1/10W 15kΩ
R 840	117-1031-10	1/10W 10kΩ
R 841	111-6811-81	1/2WS 680Ω
R 842	117-5631-10	1/10W 56kΩ
R 843	117-5631-10	1/10W 56kΩ
R 844	117-5631-10	1/10W 56kΩ
R 845	117-5631-10	1/10W 56kΩ
R 846	117-1031-10	1/10W 10kΩ
R 847	117-5631-10	1/10W 56kΩ
R 848	117-5631-10	1/10W 56kΩ
R 849	117-5631-10	1/10W 56kΩ
R 850	117-5631-10	1/10W 56kΩ
R 851	117-5611-10	1/10W 560Ω
R 852	111-6811-81	1/2WS 680Ω
R 853	117-2241-10	1/10W 220kΩ
R 854	117-1821-10	1/10W 1.8kΩ
R 855	117-1031-10	1/10W 10kΩ
R 856	117-5631-10	1/10W 56kΩ
R 857	117-5631-10	1/10W 56kΩ
R 858	117-1021-10	1/10W 1kΩ
R 859	117-5631-10	1/10W 56kΩ
R 860	117-5631-10	1/10W 56kΩ
R 861	117-2241-10	1/10W 220kΩ
R 862	117-1531-10	1/10W 15kΩ
R 863	117-1531-10	1/10W 15kΩ
R 864	117-3311-10	1/10W 330Ω
R 865	117-4721-10	1/10W 4.7kΩ
R 868	117-1531-10	1/10W 15kΩ
R 869	117-1531-10	1/10W 15kΩ
R 870	117-1031-10	1/10W 10kΩ
R 871	117-2231-10	1/10W 22kΩ

REF No.	PART No.	DESCRIPTION
R 872	117-1031-10	1/10W 10kΩ
R 877	117-2231-10	1/10W 22kΩ
R 878	117-5631-10	1/10W 56kΩ
R 879	117-3311-10	1/10W 330Ω
R 880	117-2231-10	1/10W 22kΩ
R 881	117-5631-10	1/10W 56kΩ
R 882	117-1021-10	1/10W 1kΩ
R 883	117-1021-10	1/10W 1kΩ
R 884	117-5631-10	1/10W 56kΩ
R 885	117-5631-10	1/10W 56kΩ
R 886	117-1031-10	1/10W 10kΩ
R 887	117-2231-10	1/10W 22kΩ
R 888	117-2231-10	1/10W 22kΩ
R 889	117-1021-10	1/10W 1kΩ
R 890	117-1021-10	1/10W 1kΩ
R 891	117-1021-10	1/10W 1kΩ
R 892	117-1021-10	1/10W 1kΩ
R 893	117-1021-10	1/10W 1kΩ
R 895	117-1021-10	1/10W 1kΩ
R 896	117-1021-10	1/10W 1kΩ
R 897	117-1021-10	1/10W 1kΩ
R 898	117-1021-10	1/10W 1kΩ
R 899	117-1021-10	1/10W 1kΩ
R 900	117-7501-10	1/10W 75Ω
R 901	117-1021-10	1/10W 1kΩ
R 902	117-5621-10	1/10W 5.6kΩ
R 903	111-5611-91	1/4WS 560Ω
R 904	117-7501-10	1/10W 75Ω
R 906	117-7501-10	1/10W 75Ω
R 907	117-2231-10	1/10W 22kΩ
R 908	117-2231-10	1/10W 22kΩ
R 909	111-5611-91	1/4WS 560Ω
R 910	117-1031-10	1/10W 10kΩ
R 911	117-1041-10	1/10W 100kΩ
R 912	117-7501-10	1/10W 75Ω
R 913	117-1021-10	1/10W 1kΩ
R 914	111-1031-91	1/4WS 10kΩ
R 915	117-3921-10	1/10W 3.9kΩ
R 916	117-1531-10	1/10W 15kΩ
R 917	117-2211-10	1/10W 220Ω
R 918	117-1031-10	1/10W 10kΩ
R 919	117-2231-10	1/10W 22kΩ
R 920	117-1021-10	1/10W 1kΩ
R 921	117-1041-10	1/10W 100kΩ
R 922	117-1021-10	1/10W 1kΩ
R 923	117-1021-10	1/10W 1kΩ
R 924	117-1031-10	1/10W 10kΩ
R 925	117-1031-10	1/10W 10kΩ
R 926	117-4721-10	1/10W 4.7kΩ
R 927	117-1031-10	1/10W 10kΩ
R 928	117-3321-10	1/10W 3.3kΩ
R 929	117-1031-10	1/10W 10kΩ
R 930	117-2211-10	1/10W 220Ω
R 931	117-1021-10	1/10W 1kΩ
R 932	117-1031-10	1/10W 10kΩ
R 933	117-1021-10	1/10W 1kΩ
R 934	117-5621-10	1/10W 5.6kΩ
R 935	117-4721-10	1/10W 4.7kΩ
R 936	117-3331-10	1/10W 33kΩ
R 937	117-3331-10	1/10W 33kΩ
R 938	117-5621-10	1/10W 5.6kΩ
R 939	117-4721-10	1/10W 4.7kΩ
R 940	117-1021-10	1/10W 1kΩ

REF No.	PART No.	DESCRIPTION
R 941	117-1021-10	1/10W 1kΩ
R 942	117-3311-10	1/10W 330Ω
R 943	117-3311-10	1/10W 330Ω
R 944	117-3321-10	1/10W 3.3kΩ
R 945	117-4721-10	1/10W 4.7kΩ
R 946	117-1531-10	1/10W 15kΩ
R 947	117-1021-10	1/10W 1kΩ
R 948	117-2711-10	1/10W 270Ω
R 949	117-2211-10	1/10W 220Ω
R 950	117-2231-10	1/10W 22kΩ
R 951	117-2231-10	1/10W 22kΩ
R 952	117-4731-10	1/10W 47kΩ
R 953	117-3331-10	1/10W 33kΩ
R 954	117-1021-10	1/10W 1kΩ
R 955	117-5621-10	1/10W 5.6kΩ
R 956	117-5621-10	1/10W 5.6kΩ
R 957	117-4721-10	1/10W 4.7kΩ
R 958	117-3311-10	1/10W 330Ω
R 959	117-1021-10	1/10W 1kΩ
R 960	117-1021-10	1/10W 1kΩ
R 961	117-3311-10	1/10W 330Ω
R 962	117-1021-10	1/10W 1kΩ
R 963	117-4721-10	1/10W 4.7kΩ
R 964	117-5631-10	1/10W 56kΩ
R 965	117-1021-10	1/10W 1kΩ
R 966	117-3321-10	1/10W 3.3kΩ
R 967	117-2231-10	1/10W 22kΩ
R 968	117-3331-10	1/10W 33kΩ
R 969	117-2231-10	1/10W 22kΩ
R 970	117-2231-10	1/10W 22kΩ
R 972	117-4721-10	1/10W 4.7kΩ
R 973	117-4711-10	1/10W 470Ω
R 974	117-1031-10	1/10W 10kΩ
R 975	117-1021-10	1/10W 1kΩ
R 976	117-1031-10	1/10W 10kΩ
R 977	117-5621-10	1/10W 5.6kΩ
R 978	117-1031-10	1/10W 10kΩ
R 979	117-4741-10	1/10W 470kΩ
R 980	117-1231-10	1/10W 12kΩ
R 981	117-5631-10	1/10W 56kΩ
R 982	117-4711-10	1/10W 470Ω
R 984	117-3921-10	1/10W 3.9kΩ
R 985	117-2231-10	1/10W 22kΩ
R 986	117-4731-10	1/10W 47kΩ
R 988	117-1031-10	1/10W 10kΩ
R 989	117-1031-10	1/10W 10kΩ
R 990	117-1031-10	1/10W 10kΩ
R 991	117-2231-10	1/10W 22kΩ
R 992	117-1021-10	1/10W 1kΩ
R 993	117-1021-10	1/10W 1kΩ
R 994	117-3311-10	1/10W 330Ω
R 995	117-1011-10	1/10W 100Ω
R 997	117-1011-10	1/10W 100Ω
R 998	117-1011-10	1/10W 100Ω
R 999	117-2231-10	1/10W 22kΩ
TC 501	004-1583-12	20pF
TC 801	004-1580-05	50pF
X 501	061-1057-10	4.9152MHz
X 502	061-1086-50	14.31818MHz
X 503	061-3042-00	17.734475MHz
X 802	061-1056-00	32.768kHz
X 803	061-3029-00	4.091MHz

DCP PWB

REF No.	PART No.	DESCRIPTION
C 701	178-1055-79	1 μF
C 702	178-1055-79	1 μF
D 701	001-0524-00	HN2D01F
D 701	001-0525-00	IMN10
D 702	001-0524-00	HN2D01F
D 702	001-0525-00	IMN10
D 703	001-7027-00	
D 704	001-7027-00	

REF No.	PART No.	DESCRIPTION
D 707	001-0593-01	CL-155-Y/PG-D
D 708	001-0593-01	CL-155-Y/PG-D
IC 701	051-6001-01	μPD16431AGC-7ET
J 701	076-0531-00	
LCD 701	379-1092-41	LCD
Q 701	125-0001-01	UN2111
Q 701	125-0002-02	RN2402
Q 701	125-0014-02	DTA114EK

REF No.	PART No.	DESCRIPTION
Q 702	125-0001-01	UN2111
Q 702	125-0002-02	RN2402
Q 702	125-0014-02	DTA114EK
Q 703	125-0001-01	UN2111
Q 703	125-0014-02	DTA114EK
Q 703	125-2036-00	FB1J3P
Q 704	125-2036-00	FB1J3P
Q 705	125-2036-00	FB1J3P

REF No.	PART No.	DESCRIPTION
Q 706	125-0002-02	RN2402
R 701	117-1031-10	1/10W 10kΩ
R 702	117-1041-10	1/10W 100kΩ
R 703	117-1041-10	1/10W 100kΩ
R 705	118-5611-10	1/2W 560Ω
R 706	118-5611-10	1/2W 560Ω
R 707	118-5611-10	1/2W 560Ω
R 708	118-6811-10	1/2W 680Ω
R 709	118-6811-10	1/2W 680Ω
R 711	117-1021-10	1/10W 1kΩ
R 712	117-1021-10	1/10W 1kΩ
R 713	117-1021-10	1/10W 1kΩ

REF No.	PART No.	DESCRIPTION
R 714	117-1021-10	1/10W 1kΩ
R 715	117-1021-10	1/10W 1kΩ
R 716	117-1021-10	1/10W 1kΩ
R 717	117-4711-10	1/10W 470Ω
R 718	117-1021-10	1/10W 1kΩ
R 719	117-7501-10	1/10W 75Ω
R 720	117-7501-10	1/10W 75Ω
R 721	118-6811-10	1/2W 680Ω
S 701	013-6501-01	
S 702	013-6501-01	
S 703	013-6501-01	
S 704	013-6501-01	

REF No.	PART No.	DESCRIPTION
S 705	013-6501-01	
S 706	013-6501-01	
S 707	013-6501-01	
S 708	013-6501-01	
S 709	013-6501-01	
S 710	013-6501-01	
S 711	013-6501-01	
S 712	013-6501-01	
S 713	013-6501-02	
S 714	013-9900-00	
S 715	013-6501-01	

Tuner PWB

REF No.	PART No.	DESCRIPTION
ANT 1	092-0612-03	ANTENNA RECEPT
BL 1	941-0203-00	TV TUNER
BL 2	880-2081A	AM/FM TUNER
C 1	178-1022-78	1000pF
C 2	178-1022-78	1000pF
C 3	178-1042-78	0.1 μF
C 4	178-1042-78	0.1 μF
C 5	183-1073-22	10V100 μF
C 6	178-1022-78	1000pF
C 7	178-1042-78	0.1 μF
C 8	183-4753-52	35V4.7 μF
C 9	183-4753-52	35V4.7 μF
C 10	178-1032-78	0.01 μF
C 11	176-8201-00	82pF CH
C 12	183-4753-52	35V4.7 μF
C 13	176-4701-00	47pF CH
C 14	178-1042-78	0.1 μF
C 15	176-1011-00	100pF CH
C 16	183-2253-62	50V2.2 μF
C 17	178-3312-78	330pF
C 18	184-4773-22	10V470 μF
C 19	176-1011-00	100pF CH
C 20	178-1022-78	1000pF
C 21	183-4763-12	6.3V47 μF
C 22	183-4763-32	16V47 μF
C 23	178-5612-78	560pF
C 24	183-4763-32	16V47 μF
C 25	178-5612-78	560pF
C 26	178-1022-78	1000pF
C 27	178-2232-78	0.022 μF
C 28	178-2232-78	0.022 μF
C 29	183-4753-52	35V4.7 μF
C 30	183-4753-52	35V4.7 μF
C 31	178-2242-78	0.22 μF
C 32	176-2201-00	22pF CH
C 33	172-6831-11	0.068 μF
C 34	172-6831-11	0.068 μF
C 35	176-2201-00	22pF CH
C 36	178-1032-78	0.01 μF
C 37	184-4773-22	10V470 μF
C 38	178-1032-78	0.01 μF
C 39	178-1042-78	0.1 μF
C 40	183-1073-22	10V100 μF
C 41	178-1022-78	1000pF
C 42	178-1032-78	0.01 μF
C 43	178-1032-78	0.01 μF
C 44	183-1063-32	16V10 μF
C 45	178-1022-78	1000pF
C 46	178-1022-78	1000pF
C 47	176-1801-00	18pF CH
C 48	176-1501-00	15pF CH
C 49	178-1022-78	1000pF
C 51	178-1042-78	0.1 μF
C 52	178-1022-78	1000pF
C 54	176-1011-00	100pF CH
C 55	178-1022-78	1000pF
C 56	178-1022-78	1000pF
C 57	178-1022-78	1000pF
C 58	178-1032-78	0.01 μF

REF No.	PART No.	DESCRIPTION
C 59	178-1032-78	0.01 μF
C 60	178-1032-78	0.01 μF
C 61	178-1032-78	0.01 μF
C 62	178-1032-78	0.01 μF
C 63	042-0527-00	16V47 μF
C 64	178-1032-78	0.01 μF
C 65	178-1032-78	0.01 μF
C 66	178-4732-78	0.047 μF
C 67	178-1032-78	0.01 μF
C 68	178-1042-78	0.1 μF
C 69	176-1011-00	100pF CH
C 70	176-1011-00	100pF CH
C 71	176-1011-00	100pF CH
C 72	176-1011-00	100pF CH
C 73	183-4753-52	35V4.7 μF
C 74	178-1032-78	0.01 μF
C 75	183-1053-62	50V1 μF
C 76	183-4763-12	6.3V47 μF
C 78	183-1053-62	50V1 μF
C 79	178-1222-78	1200pF
C 80	183-1053-62	50V1 μF
C 81	178-1532-78	0.015 μF
C 82	178-1532-78	0.015 μF
C 83	183-1053-62	50V1 μF
C 84	183-4753-52	35V4.7 μF
C 85	178-2232-78	0.022 μF
C 86	183-1063-32	16V10 μF
C 87	178-2232-78	0.022 μF
C 90	178-2232-78	0.022 μF
C 91	178-2232-78	0.022 μF
C 92	183-4753-52	35V4.7 μF
C 93	172-3341-11	0.33 μF
C 94	178-1032-78	0.01 μF
C 95	183-1053-62	50V1 μF
C 96	183-4763-12	6.3V47 μF
C 97	178-2232-78	0.022 μF
C 98	178-1022-78	1000pF
C 99	042-0176-00	16V10 μF
C 100	173-5621-18	5600pF
C 101	183-1053-62	50V1 μF
C 102	183-1053-62	50V1 μF
C 103	178-5612-78	560pF
C 104	178-3312-78	330pF
C 105	183-1053-62	50V1 μF
C 106	183-4753-52	35V4.7 μF
C 107	184-2263-61	50V22 μF
C 108	183-1063-32	16V10 μF
C 109	183-4753-52	35V4.7 μF
C 110	183-4753-62	50V4.7 μF
C 111	178-1032-78	0.01 μF
C 112	183-4753-62	50V4.7 μF
C 113	178-6812-78	680pF
C 114	184-2283-32	16V2200 μF
C 115	172-1041-11	0.1 μF
C 116	182-1073-32	16V100 μF
C 117	178-1032-78	0.01 μF
C 118	183-1063-32	16V10 μF
C 119	183-1043-62	50V0.1 μF
C 120	178-1032-78	0.01 μF

REF No.	PART No.	DESCRIPTION
C 121	178-5622-78	5600pF
C 122	183-4753-52	35V4.7 μF
C 123	178-5622-78	5600pF
C 124	176-6811-50	680pF CH
C 125	178-1032-78	0.01 μF
C 126	183-1053-62	50V1 μF
C 127	178-6812-78	680pF
C 128	178-3342-78	0.33 μF
C 129	178-2722-78	2700pF
C 130	176-3311-00	330pF CH
C 131	178-1032-78	0.01 μF
C 132	178-8212-78	820pF
C 133	183-4753-52	35V4.7 μF
C 134	178-6812-78	680pF
C 135	183-1063-32	16V10 μF
C 136	178-1032-78	0.01 μF
C 137	184-2283-32	16V2200 μF
C 138	183-4763-32	16V47 μF
C 139	172-1041-11	0.1 μF
C 140	176-1011-00	100pF CH
C 141	183-4753-52	35V4.7 μF
C 145	178-6812-78	680pF
C 146	178-1022-78	1000pF
C 148	042-0527-00	16V47 μF
C 149	184-4773-22	10V470 μF
C 150	176-4701-00	47pF CH
C 151	176-4701-00	47pF CH
C 152	176-4701-00	47pF CH
C 153	176-4701-00	47pF CH
C 155	182-1073-32	16V100 μF
C 156	178-1022-78	1000pF
C 157	178-1022-78	1000pF
C 158	178-1022-78	1000pF
C 159	178-1022-78	1000pF
C 160	183-1073-22	10V100 μF
C 161	172-1041-11	0.1 μF
C 162	172-1041-11	0.1 μF
C 163	183-2253-62	50V2.2 μF
C 164	176-1011-00	100pF CH
C 165	176-1007-00	10pF CH
C 166	178-1032-78	0.01 μF
C 167	178-1032-78	0.01 μF
C 168	176-1011-00	100pF CH
C 169	184-4773-31	16V470 μF
C 170	176-1501-00	15pF CH
C 171	176-1801-00	18pF CH
C 172	182-1073-22	10V100 μF
C 173	178-1022-78	1000pF
C 174	178-1022-78	1000pF
C 175	178-1032-78	0.01 μF
C 176	178-1022-78	1000pF
C 177	178-4712-78	470pF
C 178	178-4712-78	470pF
C 179	178-4712-78	470pF
C 180	176-1011-00	100pF CH
C 181	184-4773-31	16V470 μF
C 182	176-1011-00	100pF CH
C 183	178-1022-78	1000pF
C 185	178-1022-78	1000pF

REF No.	PART No.	DESCRIPTION
C 186	178-4712-78	470pF
C 187	178-4712-78	470pF
C 188	178-4712-78	470pF
C 189	184-4773-22	10V470 μF
C 190	176-1011-00	100pF CH
C 191	178-4712-78	470pF
C 192	178-4712-78	470pF
C 193	042-0527-00	16V47 μF
C 194	178-4712-78	470pF
C 195	176-1011-00	100pF CH
C 196	178-1032-78	0.01 μF
C 197	176-1011-00	100pF CH
C 198	176-1011-00	100pF CH
C 199	178-2232-78	0.022 μF
C 301	183-4753-51	35V4.7 μF
C 302	183-1063-31	16V10 μF
C 303	183-4743-61	50V0.47 μF
C 304	178-1032-78	0.01 μF
C 305	178-1032-78	0.01 μF
C 306	178-1032-78	0.01 μF
C 307	178-1032-78	0.01 μF
C 308	178-1032-78	0.01 μF
C 310	178-1032-78	0.01 μF
C 311	178-2222-78	2200pF
C 312	178-1032-78	0.01 μF
C 313	176-3301-00	33pF CH
C 314	178-2222-78	2200pF
C 315	178-4732-78	0.047 μF
C 316	183-1063-32	16V10 μF
C 317	183-4753-51	35V4.7 μF
C 318	178-4732-78	0.047 μF
C 319	183-4753-51	35V4.7 μF
C 320	178-1042-78	0.1 μF
C 321	178-1022-78	1000pF
C 323	178-2722-78	2700pF
C 324	178-1032-78	0.01 μF
C 325	178-1022-78	1000pF
C 326	178-2242-78	0.22 μF
C 327	176-1011-00	100pF CH
C 328	176-3301-00	33pF CH
C 329	178-1042-78	0.1 μF
C 330	178-2232-78	0.022 μF
C 332	176-3301-00	33pF CH
C 334	178-2232-78	0.022 μF
C 335	183-1063-31	16V10 μF
C 336	176-1801-00	18pF CH
C 337	178-2712-78	270pF
C 338	178-1022-78	1000pF
C 339	183-4763-31	16V47 μF
C 340	176-1011-00	100pF CH
C 341	178-1022-78	1000pF
C 342	183-4763-31	16V47 μF
C 343	178-2732-78	0.027 μF
C 344	178-1032-78	0.01 μF
C 345	178-2232-78	0.022 μF
C 346	178-2732-78	0.027 μF
C 347	183-1073-21	10V100 μF
C 348	178-1232-78	0.012 μF
C 349	183-1063-31	16V10 μF
C 350	183-2263-31	16V22 μF
C 351	178-1532-78	0.015 μF
C 352	183-1063-31	16V10 μF
C 353	176-1011-00	100pF CH
C 357	183-1073-21	10V100 μF
C 501	183-1063-32	16V10 μF
C 502	178-1032-78	0.01 μF
C 503	184-4773-31	16V470 μF
C 504	176-3096-00	3pF CJ
C 505	183-1063-32	16V10 μF
C 506	042-0176-00	16V10 μF
C 507	178-1022-78	1000pF
C 508	176-1011-00	100pF CH
C 509	176-1011-00	100pF CH
C 510	176-1011-00	100pF CH
C 511	176-1011-00	100pF CH

REF No.	PART No.	DESCRIPTION
C 513	183-1063-32	16V10 μF
C 516	178-1022-78	1000pF
C 517	178-2242-78	0.22 μF
C 518	178-1022-78	1000pF
C 519	178-1022-78	1000pF
D 1	001-0516-00	MA111
D 2	001-0516-00	MA111
D 3	001-4900-06	UZMA-8.2
D 4	001-4900-06	UZMA-8.2
D 5	001-0584-13	MA8030
D 6	001-0516-00	MA111
D 7	001-0343-00	1SS131
D 8	001-0584-19	MA8051
D 9	001-4900-06	UZMA-8.2
D 10	001-0584-24	MA8082
D 11	001-0579-00	1SV128
D 12	001-0579-00	1SV128
D 13	001-0579-00	1SV128
D 14	001-0579-00	1SV128
D 16	001-0376-46	MTZJ9.1A
D 16	001-0377-46	MA4091L
D 17	001-0188-01	1S1885A
D 18	001-0294-00	1SS133
D 18	001-0330-00	1SS119
D 19	001-0354-00	MA151WK
D 19	001-0356-00	1SS184
D 19	001-0506-00	DAN202K
D 20	001-0376-45	MTZJ8.2C
D 20	001-0377-45	MA4082H
D 21	001-0354-00	MA151WK
D 21	001-0356-00	1SS184
D 21	001-0506-00	DAN202K
D 22	001-0516-00	MA111
D 23	001-0516-00	MA111
D 24	001-0367-00	1SS226
D 24	001-0540-00	HVM187WK
D 25	001-0516-00	MA111
D 28	001-0354-00	MA151WK
D 28	001-0356-00	1SS184
D 28	001-0506-00	DAN202K
D 29	001-0354-00	MA151WK
D 29	001-0356-00	1SS184
D 29	001-0506-00	DAN202K
D 30	001-0516-00	MA111
D 31	001-0354-00	MA151WK
D 31	001-0356-00	1SS184
D 31	001-0506-00	DAN202K
D 32	001-0516-00	MA111
D 34	001-0354-00	MA151WK
D 34	001-0356-00	1SS184
D 34	001-0506-00	DAN202K
D 35	001-0516-00	MA111
D 36	001-0516-00	MA111
D 37	001-0516-00	MA111
D 301	001-0541-00	MA157
D 501	001-4300-56	HZU12B2
D 1001	001-4900-06	UZMA-8.2
D 1002	001-4900-06	UZMA-8.2
IC 1	052-1316-00	μPD178016GC-516-3B9
IC 2	051-0350-55	NJM4558M
IC 3	051-0940-00	S-8054HN
IC 4	051-0160-06	SN74LS07NS-L
IC 4	051-7400-06	HD74LS07FP
IC 5	052-1307-10	μPD78052GC-133-3B9
IC 6	051-0482-05	TC4053BF
IC 6	051-0482-35	MC14053BF
IC 7	051-1585-05	TD7104F
IC 8	051-1717-05	LC7219M
IC 9	051-6201-00	LC72146M
IC 10	051-5802-90	TA2050F
IC 11	051-5802-90	TA2050F
IC 12	051-2009-00	TDA8561Q
IC 13	051-1838-00	BA6161F

REF No.	PART No.	DESCRIPTION
IC 14	051-4404-00	AN7294FBS
IC 15	051-2009-00	TDA8561Q
IC 16	051-0792-00	TA78DS05BP
IC 17	051-1819-00	SAA6579T
IC 18	051-0350-55	NJM4558M
IC 19	051-0160-06	SN74LS07NS-L
IC 19	051-7400-06	HD74LS07FP
IC 301	051-1755-10	TA8700AN
IC 302	051-0987-01	AN7463S
IC 303	051-5310-00	M52317SP
IC 304	051-0350-55	NJM4558M
IC 501	051-5311-90	MC14577C-F
IFT 301	060-2200-01	SAF38.9MX70Z
IFT 302	005-5005-00	600XEAS
IFT 303	060-2000-02	CDSH6.0MC38K
IFT 304	005-2003-02	SFSL6.0MCB
IFT 305	005-2003-01	SFSL6.5MCB
IFT 306	005-2003-00	SFSL5.5MCB
IFT 307	060-2606-00	TPS5.5MB
IFT 308	060-2606-02	TPS6.0MB
IFT 309	060-2606-01	TPS6.5MB
J 1	074-1134-00	
J 2	074-1106-08	
J 3	074-1081-08	
J 4	074-1126-10	
J 5	075-9002-00	
J 6	075-0239-01	
J 7	075-0239-01	
J 8	075-0239-01	
J 9	075-0239-01	
J 10	074-1126-10	
J 301	074-1135-10	
J 302	074-1135-10	
L 1	010-2155-03	10 μH
L 2	010-2199-24	10 μH J
L 3	010-2155-03	10 μH
L 4	010-2199-24	10 μH J
L 5	010-2198-00	0.15 μH
L 6	010-2044-08	4.7mH
L 7	010-1838-00	100 μH
L 8	010-2199-64	1.5 μH J
L 11	010-2199-20	4.7 μH J
L 12	010-2199-20	4.7 μH J
L 13	010-2199-20	4.7 μH J
L 14	010-2199-20	4.7 μH J
L 17	010-2003-04	
L 18	010-3001-01	0.022 μH
L 19	010-2155-90	1.5 μF
L 20	010-2155-03	10 μH
L 21	010-2199-28	22 μH J
L 22	010-2199-28	22 μH J
L 23	010-3001-56	2.2m μF
L 24	010-2199-90	220 μH J
L 301	010-2198-52	3.3 μH
L 302	010-2199-29	27 μH J
L 303	010-2330-22	15 μH
L 304	010-2330-22	15 μH
L 305	010-2330-22	15 μH
L 309	010-2330-20	10 μH
P 1	076-0530-10	
P 2	076-0530-10	
P 3	076-0515-08	
P 7	074-0884-00	
Q 1	100-1162-00	2SA1162
Q 1	101-0709-00	2SB709A-Q.R.S
Q 2	125-0001-02	UN2112
Q 2	125-0002-03	RN2403
Q 2	125-0014-03	DTA124EC
Q 3	102-3326-00	2SC3326
Q 3	103-1306-00	2SD1306
Q 4	102-3326-00	2SC3326
Q 4	103-1306-00	2SD1306
Q 5	100-1162-00	2SA1162
Q 5	101-0709-00	2SB709A-Q.R.S
Q 6	102-2412-00	2SC2412

REF No.	PART No.	DESCRIPTION
Q 6	102-2712-00	2SC2712
Q 7	102-2412-00	2SC2412
Q 7	102-2712-00	2SC2712
Q 8	102-2412-00	2SC2412
Q 8	102-2712-00	2SC2712
Q 9	125-0001-02	UN2112
Q 9	125-0002-03	RN2403
Q 9	125-0014-03	DTA124EK
Q 10	125-2004-02	RN1402
Q 10	125-2005-01	UN2211
Q 10	125-2020-02	DTC114EK
Q 11	125-0001-02	UN2112
Q 11	125-0002-03	RN2403
Q 11	125-0014-03	DTA124EK
Q 12	125-0001-02	UN2112
Q 12	125-0002-03	RN2403
Q 12	125-0014-03	DTA124EK
Q 14	125-2004-02	RN1402
Q 14	125-2005-01	UN2211
Q 14	125-2020-02	DTC114EK
Q 15	100-1428-00	2SA1428
Q 17	125-0001-02	UN2112
Q 17	125-0002-03	RN2403
Q 17	125-0014-03	DTA124EK
Q 18	108-0208-00	2SK208
Q 19	102-2412-00	2SC2412
Q 19	102-2712-00	2SC2712
Q 20	108-0669-00	2SK669
Q 21	102-2412-00	2SC2412
Q 21	102-2712-00	2SC2712
Q 23	100-1428-00	2SA1428
Q 24	125-2004-03	RN1403
Q 24	125-2005-02	UN2212
Q 24	125-2020-03	DTC124EK
Q 25	125-2004-03	RN1403
Q 25	125-2005-02	UN2212
Q 25	125-2020-03	DTC124EK
Q 26	125-2004-03	RN1403
Q 26	125-2005-02	UN2212
Q 26	125-2020-03	DTC124EK
Q 27	100-1428-00	2SA1428
Q 28	125-2004-03	RN1403
Q 28	125-2005-02	UN2212
Q 28	125-2020-03	DTC124EK
Q 29	100-1428-00	2SA1428
Q 31	100-1428-00	2SA1428
Q 33	103-1683-00	2SD1683
Q 34	100-1428-00	2SA1428
Q 36	101-1143-00	2SB1143
Q 37	100-1428-00	2SA1428
Q 38	125-2004-03	RN1403
Q 38	125-2005-02	UN2212
Q 38	125-2020-03	DTC124EK
Q 39	102-3125-00	2SC3125
Q 40	125-0001-02	UN2112
Q 40	125-0002-03	RN2403
Q 40	125-0014-03	DTA124EK
Q 41	102-3326-00	2SC3326
Q 41	103-1306-00	2SD1306
Q 42	125-2004-03	RN1403
Q 42	125-2005-02	UN2212
Q 42	125-2020-03	DTC124EK
Q 43	108-0217-50	2SK217D,E
Q 44	102-2412-00	2SC2412
Q 44	102-2712-00	2SC2712
Q 45	125-2004-03	RN1403
Q 45	125-2005-02	UN2212
Q 45	125-2020-03	DTC124EK
Q 46	100-1162-00	2SA1162
Q 46	101-0709-00	2SB709A-Q.R.S
Q 47	102-2412-00	2SC2412
Q 47	102-2712-00	2SC2712
Q 48	102-2412-00	2SC2412
Q 48	102-2712-00	2SC2712
Q 50	125-2004-03	RN1403

REF No.	PART No.	DESCRIPTION
Q 50	125-2005-02	UN2212
Q 50	125-2020-03	DTC124EK
Q 51	125-2004-03	RN1403
Q 51	125-2005-02	UN2212
Q 51	125-2020-03	DTC124EK
Q 52	100-1162-00	2SA1162
Q 52	101-0709-00	2SB709A-Q.R.S
Q 53	100-1428-00	2SA1428
Q 54	102-2412-00	2SC2412
Q 54	102-2712-00	2SC2712
Q 301	102-2412-00	2SC2412
Q 301	102-2712-00	2SC2712
Q 302	102-2412-00	2SC2412
Q 302	102-2712-00	2SC2712
Q 303	100-1048-00	2SA1048
Q 304	102-2412-00	2SC2412
Q 304	102-2712-00	2SC2712
Q 305	102-3326-00	2SC3326
Q 305	103-1306-00	2SD1306
R 1	117-1031-10	1/10W 10kΩ
R 2	111-1031-91	1/4WS 10kΩ
R 3	111-2221-91	1/4WS 2.2kΩ
R 4	117-1021-10	1/10W 1kΩ
R 5	117-1021-10	1/10W 1kΩ
R 6	117-1021-10	1/10W 1kΩ
R 7	117-1031-10	1/10W 10kΩ
R 8	117-1021-10	1/10W 1kΩ
R 9	117-3311-10	1/10W 330Ω
R 10	117-3311-10	1/10W 330Ω
R 11	117-2231-10	1/10W 22kΩ
R 12	117-2231-10	1/10W 22kΩ
R 13	117-1011-10	1/10W 100Ω
R 14	117-1031-10	1/10W 10kΩ
R 15	117-1031-10	1/10W 10kΩ
R 16	111-2221-91	1/4WS 2.2kΩ
R 17	117-4711-10	1/10W 470Ω
R 18	117-1031-10	1/10W 10kΩ
R 19	117-3931-10	1/10W 39kΩ
R 20	117-4711-10	1/10W 470Ω
R 21	117-3931-10	1/10W 39kΩ
R 22	117-1031-10	1/10W 10kΩ
R 23	111-7501-91	1/4WS 75Ω
R 24	117-1031-10	1/10W 10kΩ
R 25	117-4711-10	1/10W 470Ω
R 26	117-1031-10	1/10W 10kΩ
R 27	117-1031-10	1/10W 10kΩ
R 28	117-4711-10	1/10W 470Ω
R 29	117-1031-10	1/10W 10kΩ
R 30	117-4711-10	1/10W 470Ω
R 31	117-1031-10	1/10W 10kΩ
R 32	117-1031-10	1/10W 10kΩ
R 33	117-1031-10	1/10W 10kΩ
R 35	117-1031-10	1/10W 10kΩ
R 36	117-1031-10	1/10W 10kΩ
R 37	117-3331-10	1/10W 33kΩ
R 38	117-3331-10	1/10W 33kΩ
R 41	117-1031-10	1/10W 10kΩ
R 42	117-1521-10	1/10W 1.5kΩ
R 43	117-1031-10	1/10W 10kΩ
R 45	117-4711-10	1/10W 470Ω
R 46	117-1021-10	1/10W 1kΩ
R 47	117-1031-10	1/10W 10kΩ
R 48	117-1021-10	1/10W 1kΩ
R 49	117-1021-10	1/10W 1kΩ
R 50	117-4731-10	1/10W 47kΩ
R 51	117-2201-10	1/10W 22Ω
R 52	117-1011-10	1/10W 100Ω
R 53	117-1031-10	1/10W 10kΩ
R 54	117-1021-10	1/10W 1kΩ
R 55	117-4721-10	1/10W 4.7kΩ
R 56	117-1031-10	1/10W 10kΩ
R 57	117-1031-10	1/10W 10kΩ
R 58	117-3321-10	1/10W 3.3kΩ
R 59	032-0084-00	1/4W 10Ω
R 60	117-1021-10	1/10W 1kΩ

REF No.	PART No.	DESCRIPTION
R 61	117-4711-10	1/10W 470Ω
R 62	117-4711-10	1/10W 470Ω
R 63	117-1021-10	1/10W 1kΩ
R 64	117-1021-10	1/10W 1kΩ
R 65	117-1021-10	1/10W 1kΩ
R 66	117-1021-10	1/10W 1kΩ
R 67	117-1021-10	1/10W 1kΩ
R 69	117-4711-10	1/10W 470Ω
R 70	117-1021-10	1/10W 1kΩ
R 71	117-4711-10	1/10W 470Ω
R 72	117-4711-10	1/10W 470Ω
R 73	117-4711-10	1/10W 470Ω
R 74	117-1021-10	1/10W 1kΩ
R 76	117-1021-10	1/10W 1kΩ
R 77	117-1021-10	1/10W 1kΩ
R 78	117-1021-10	1/10W 1kΩ
R 79	117-1021-10	1/10W 1kΩ
R 80	117-4721-10	1/10W 4.7kΩ
R 81	117-1021-10	1/10W 1kΩ
R 82	117-1031-10	1/10W 10kΩ
R 83	117-1031-10	1/10W 10kΩ
R 84	117-4721-10	1/10W 4.7kΩ
R 85	117-4721-10	1/10W 4.7kΩ
R 87	117-4721-10	1/10W 4.7kΩ
R 88	117-1031-10	1/10W 10kΩ
R 89	117-1021-10	1/10W 1kΩ
R 90	117-1011-10	1/10W 100Ω
R 91	117-4711-10	1/10W 470Ω
R 92	117-4711-10	1/10W 470Ω
R 93	117-1021-10	1/10W 1kΩ
R 94	117-4711-10	1/10W 470Ω
R 95	117-4711-10	1/10W 470Ω
R 96	117-4711-10	1/10W 470Ω
R 98	117-1231-10	1/10W 12kΩ
R 99	117-3321-10	1/10W 3.3kΩ
R 100	117-2221-10	1/10W 2.2kΩ
R 101	117-2231-10	1/10W 22kΩ
R 102	117-1031-10	1/10W 10kΩ
R 103	117-1231-10	1/10W 12kΩ
R 104	117-2731-10	1/10W 27kΩ
R 105	117-2211-10	1/10W 220Ω
R 106	117-1041-10	1/10W 100kΩ
R 107	117-2221-10	1/10W 2.2kΩ
R 108	117-1021-10	1/10W 1kΩ
R 109	117-1021-10	1/10W 1kΩ
R 110	117-1021-10	1/10W 1kΩ
R 111	117-1021-10	1/10W 1kΩ
R 112	117-2231-10	1/10W 22kΩ
R 113	117-1021-10	1/10W 1kΩ
R 114	117-1031-10	1/10W 10kΩ
R 115	117-1021-10	1/10W 1kΩ
R 117	117-2231-10	1/10W 22kΩ
R 118	117-1021-10	1/10W 1kΩ
R 119	117-3331-10	1/10W 33kΩ
R 120	117-2231-10	1/10W 22kΩ
R 121	117-3331-10	1/10W 33kΩ
R 122	111-1221-91	1/4WS 1.2kΩ
R 123	117-1541-10	1/10W 150kΩ
R 124	117-1031-10	1/10W 10kΩ
R 125	117-2211-10	1/10W 220Ω
R 126	117-4721-10	1/10W 4.7kΩ
R 127	111-1011-91	1/4WS 100Ω
R 128	117-4721-10	1/10W 4.7kΩ
R 129	117-1211-10	1/10W 120Ω
R 130	117-2231-10	1/10W 22kΩ
R 133	117-1031-10	1/10W 10kΩ
R 136	117-1031-10	1/10W 10kΩ
R 137	117-1021-10	1/10W 1kΩ
R 138	117-1031-10	1/10W 10kΩ
R 139	117-1031-10	1/10W 10kΩ
R 140	117-1031-10	1/10W 10kΩ
R 141	117-1521-10	1/10W 1.5kΩ
R 142	117-1031-10	1/10W 10kΩ
R 143	117-1031-10	1/10W 10kΩ
R 144	117-1031-10	1/10W 10kΩ

REF No.	PART No.	DESCRIPTION
R 145	117-1031-10	1/10W 10kΩ
R 146	117-5611-10	1/10W 560Ω
R 147	117-1011-10	1/10W 100Ω
R 148	117-5611-10	1/10W 560Ω
R 149	117-5611-10	1/10W 560Ω
R 150	117-5611-10	1/10W 560Ω
R 151	117-1011-10	1/10W 100Ω
R 152	117-1521-10	1/10W 1.5kΩ
R 153	117-1011-10	1/10W 100Ω
R 154	117-1011-10	1/10W 100Ω
R 155	117-4711-10	1/10W 470Ω
R 156	117-1031-10	1/10W 10kΩ
R 157	117-1521-10	1/10W 1.5kΩ
R 158	117-1521-10	1/10W 1.5kΩ
R 159	117-1031-10	1/10W 10kΩ
R 160	117-1031-10	1/10W 10kΩ
R 161	117-5621-10	1/10W 5.6kΩ
R 162	117-1041-10	1/10W 100kΩ
R 163	117-1031-10	1/10W 10kΩ
R 164	117-8221-10	1/10W 8.2kΩ
R 165	117-1521-10	1/10W 1.5kΩ
R 166	117-2201-10	1/10W 22Ω
R 168	117-1031-10	1/10W 10kΩ
R 169	117-5621-10	1/10W 5.6kΩ
R 170	111-1221-91	1/4WS 1.2kΩ
R 171	111-3311-91	1/4WS 330Ω
R 172	111-1011-91	1/4WS 100Ω
R 173	111-1031-91	1/4WS 10kΩ
R 175	117-2221-10	1/10W 2.2kΩ
R 176	117-1831-10	1/10W 18kΩ
R 177	117-1031-10	1/10W 10kΩ
R 178	117-1031-10	1/10W 10kΩ
R 179	117-1021-10	1/10W 1kΩ
R 180	117-1521-10	1/10W 1.5kΩ
R 181	117-7521-10	1/10W 7.5kΩ
R 182	117-3301-10	1/10W 33Ω
R 183	117-3311-10	1/10W 330Ω
R 184	117-1511-10	1/10W 150Ω
R 185	117-2211-10	1/10W 220Ω
R 187	117-1021-10	1/10W 1kΩ
R 189	117-1031-10	1/10W 10kΩ
R 190	117-2231-10	1/10W 22kΩ
R 191	117-2231-10	1/10W 22kΩ
R 192	117-2231-10	1/10W 22kΩ
R 193	117-2231-10	1/10W 22kΩ
R 194	117-3341-10	1/10W 330kΩ
R 195	117-1001-10	1/10W 10Ω
R 196	117-3921-10	1/10W 3.9kΩ
R 197	117-2201-10	1/10W 22Ω
R 198	111-2201-81	1/2W 22Ω
R 199	117-5631-10	1/10W 56kΩ
R 301	117-1021-10	1/10W 1kΩ
R 302	117-5601-10	1/10W 56Ω
R 303	117-3921-10	1/10W 3.9kΩ
R 304	117-1031-10	1/10W 10kΩ
R 305	117-4721-10	1/10W 4.7kΩ
R 306	117-1241-10	1/10W 120kΩ

REF No.	PART No.	DESCRIPTION
R 307	117-3331-10	1/10W 33kΩ
R 308	117-1521-10	1/10W 1.5kΩ
R 309	117-1811-10	1/10W 180Ω
R 310	117-4721-10	1/10W 4.7kΩ
R 311	117-3321-10	1/10W 3.3kΩ
R 312	117-5621-10	1/10W 5.6kΩ
R 313	117-8241-10	1/10W 820kΩ
R 314	117-5611-10	1/10W 560Ω
R 315	117-3311-10	1/10W 330Ω
R 316	117-5601-10	1/10W 56Ω
R 317	117-1021-10	1/10W 1kΩ
R 318	117-2231-10	1/10W 22kΩ
R 319	117-4721-10	1/10W 4.7kΩ
R 320	117-4711-10	1/10W 470Ω
R 321	117-4711-10	1/10W 470Ω
R 323	117-5611-10	1/10W 560Ω
R 326	117-1021-10	1/10W 1kΩ
R 327	117-4711-10	1/10W 470Ω
R 328	117-1021-10	1/10W 1kΩ
R 329	117-2211-10	1/10W 220Ω
R 330	117-2211-10	1/10W 220Ω
R 331	117-2211-10	1/10W 220Ω
R 332	117-1021-10	1/10W 1kΩ
R 333	117-1031-10	1/10W 10kΩ
R 334	117-1031-10	1/10W 10kΩ
R 335	117-1031-10	1/10W 10kΩ
R 336	117-1531-10	1/10W 15kΩ
R 337	117-1821-10	1/10W 1.8kΩ
R 340	117-4741-10	1/10W 470kΩ
R 341	117-1031-10	1/10W 10kΩ
R 342	117-4731-10	1/10W 47kΩ
R 343	117-4731-10	1/10W 47kΩ
R 344	117-4731-10	1/10W 47kΩ
R 345	117-2221-10	1/10W 2.2kΩ
R 346	117-1021-10	1/10W 1kΩ
R 347	117-2221-10	1/10W 2.2kΩ
R 348	117-2221-10	1/10W 2.2kΩ
R 349	117-2231-10	1/10W 22kΩ
R 350	117-1031-10	1/10W 10kΩ
R 351	117-2231-10	1/10W 22kΩ
R 352	117-1021-10	1/10W 1kΩ
R 353	117-2221-10	1/10W 2.2kΩ
R 354	117-4721-10	1/10W 4.7kΩ
R 355	117-1811-10	1/10W 180Ω
R 356	117-4711-10	1/10W 470Ω
R 357	117-3301-10	1/10W 33Ω
R 358	117-2221-10	1/10W 2.2kΩ
R 501	117-3901-10	1/10W 39Ω
R 502	117-1021-10	1/10W 1kΩ
R 503	117-1021-10	1/10W 1kΩ
R 504	117-1521-10	1/10W 1.5kΩ
R 505	117-1021-10	1/10W 1kΩ
R 512	117-1831-10	1/10W 18kΩ
R 513	117-1531-10	1/10W 15kΩ
R 1001	117-4711-10	1/10W 470Ω
R 1002	117-4711-10	1/10W 470Ω
R 1003	117-4711-10	1/10W 470Ω

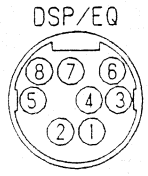
REF No.	PART No.	DESCRIPTION
R 1004	117-2221-10	1/10W 2.2kΩ
R 1005	117-1021-10	1/10W 1kΩ
R 1006	117-4711-10	1/10W 470Ω
R 1007	117-4711-10	1/10W 470Ω
R 1008	117-4711-10	1/10W 470Ω
R 1009	117-1021-10	1/10W 1kΩ
R 1010	117-1021-10	1/10W 1kΩ
R 1011	117-1021-10	1/10W 1kΩ
R 1012	117-4711-10	1/10W 470Ω
R 1013	117-4711-10	1/10W 470Ω
R 1014	117-4711-10	1/10W 470Ω
R 1015	117-4701-10	1/10W 47Ω
R 1016	117-1031-10	1/10W 10kΩ
R 1017	117-4721-10	1/10W 4.7kΩ
R 1018	117-1031-10	1/10W 10kΩ
R 1020	117-1031-10	1/10W 10kΩ
R 1021	117-1021-10	1/10W 1kΩ
R 1023	117-4721-10	1/10W 4.7kΩ
R 1024	117-1011-10	1/10W 100Ω
R 1025	117-1021-10	1/10W 1kΩ
R 1026	117-1021-10	1/10W 1kΩ
R 1027	111-1591-91	1/4WS 1.5Ω
R 1028	111-1591-91	1/4WS 1.5Ω
R 1029	111-1591-91	1/4WS 1.5Ω
R 1030	111-1591-91	1/4WS 1.5Ω
R 1031	117-1031-10	1/10W 10kΩ
R 1032	111-2221-91	1/4WS 2.2kΩ
R 1033	117-4721-10	1/10W 4.7kΩ
R 1034	117-1031-10	1/10W 10kΩ
R 1035	117-4721-10	1/10W 4.7kΩ
R 1036	117-1031-10	1/10W 10kΩ
R 1037	117-1041-10	1/10W 100kΩ
R 1038	117-1041-10	1/10W 100kΩ
R 1039	117-1041-10	1/10W 100kΩ
R 1040	117-4721-10	1/10W 4.7kΩ
R 1041	117-1031-10	1/10W 10kΩ
R 1042	111-1521-91	1/4WS 1.5kΩ
R 1043	117-1031-10	1/10W 10kΩ
R 1044	117-1031-10	1/10W 10kΩ
R 1045	117-1031-10	1/10W 10kΩ
S 1	013-5102-01	
SUP1	060-0122-20	DSP-141N-S00B
T 1	009-0659-01	
T 2	009-0470-05	
VR 1	012-6002-65	470kΩ
VR 3	012-6002-56	10kΩ
VR 301	012-6002-56	10kΩ
VR 302	012-6002-56	10kΩ
X 1	060-0318-00	KBR-4.5MWS
X 2	061-1057-10	4.9152MHz
X 3	061-1066-00	7.2MHz
X 4	060-0278-00	CSB500F9
X 5	061-1066-00	7.2MHz
X 6	061-3013-00	4.33MHz
X 301	060-1022-00	CSB1000J527

■PRINTED WIRING BOARD

Tuner amp P.W.B section

1	RX
2	TX
3	DSP-REQ
4	REMOTE +B
5	MUTE
6	+B
7	+B
8	GND

DSP/EQ



A	BACK/UP	G	
B	GND	H	RI
C	RL+	I	RI
D	RL—	J	RI
E	FL+	K	FR
F	FL—	L	FR

POWER SUPLLY

L	K	J	I	H	
F	E	D	C	B	

VR302:SOFT MUTE

TP302:LLD COIL

VR1 S-METER

VR3:FW SD

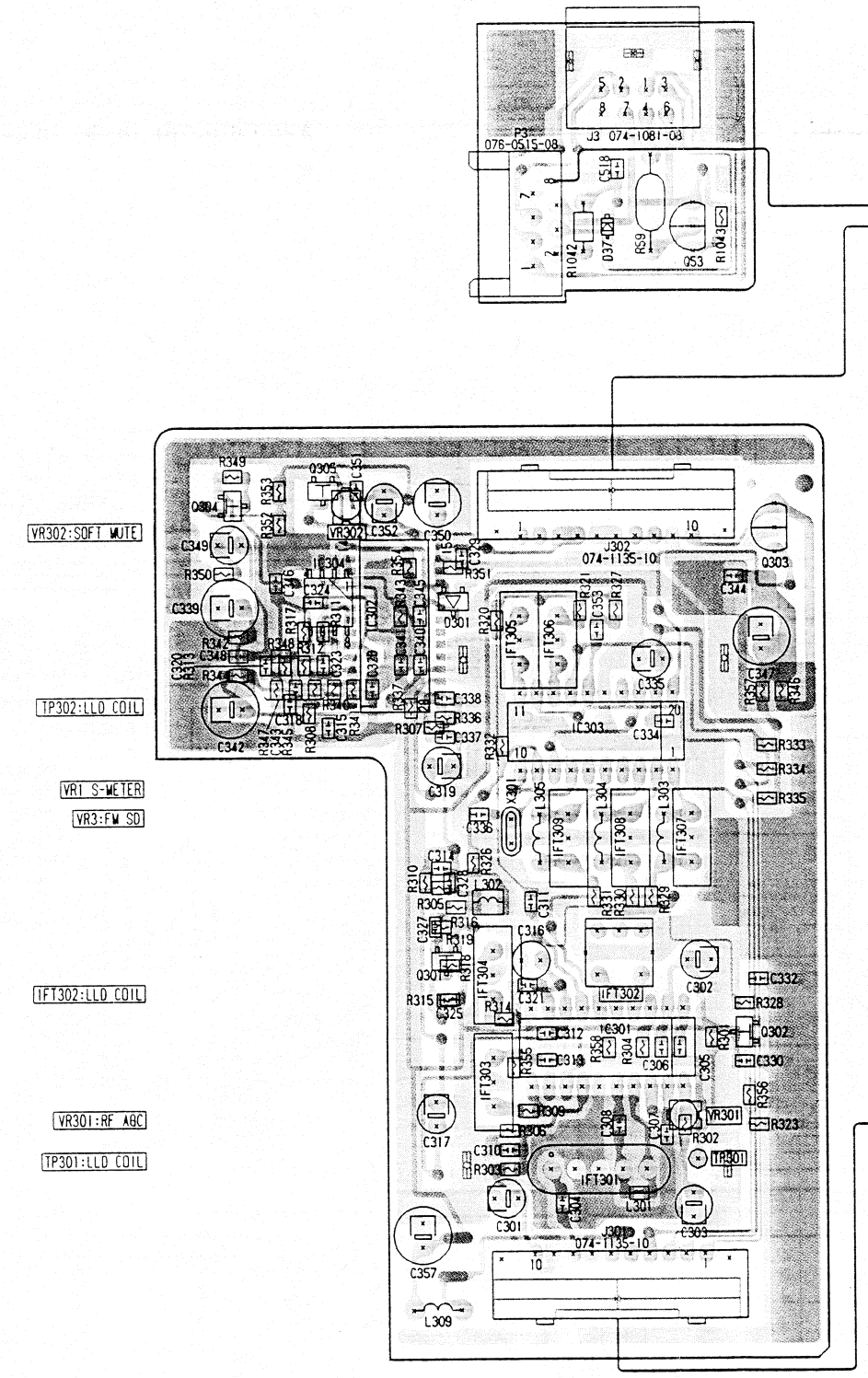
IFT302:LLD COIL

VR301:RF AGC

TP301:LLD COIL

TP3:FM SD

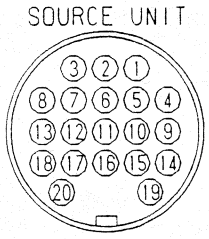
TP201:LLD COIL
RF AGC



	———
EMOTE	
R+	
R—	
R+	
R—	

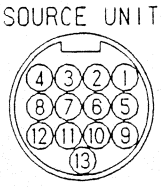
1	BACK/UP	11	MUTE
2	———	12	VIDEO
3	RESET	13	VIDEO GND
4	RX	14	REAR Lch
5	TX	15	REAR Rch
6	TU-RQ	16	AV-ON
7	DSP-REQ	17	TUNER-Lch
8	TUN/DSP	18	TUNER-Rch
9	FRONT Lch	19	FR GND
10	FRONT Rch	20	S GND

SOURCE UNIT

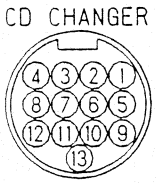


1	SI/SO
2	SCK
3	———
4	SRQ
5	REMOTE POWER
6	S-GND
7	Lch
8	Rch
9	———
10	BACK UP
11	ACC CONT
12	GND
13	———

SOURCE UNIT



CD CHANGER



AUDIO OUT
REAR FRONT

J5
075-9002-00

J10
074-1126-10

J4
074-1128-10

J1
074-1134-00

J2
074-1106-08

P1
076-0530-10

P2
076-0530-10

J6 076-0239-01 J7 076-0239-01 J8 076-0239-01 J9 076-0239-01

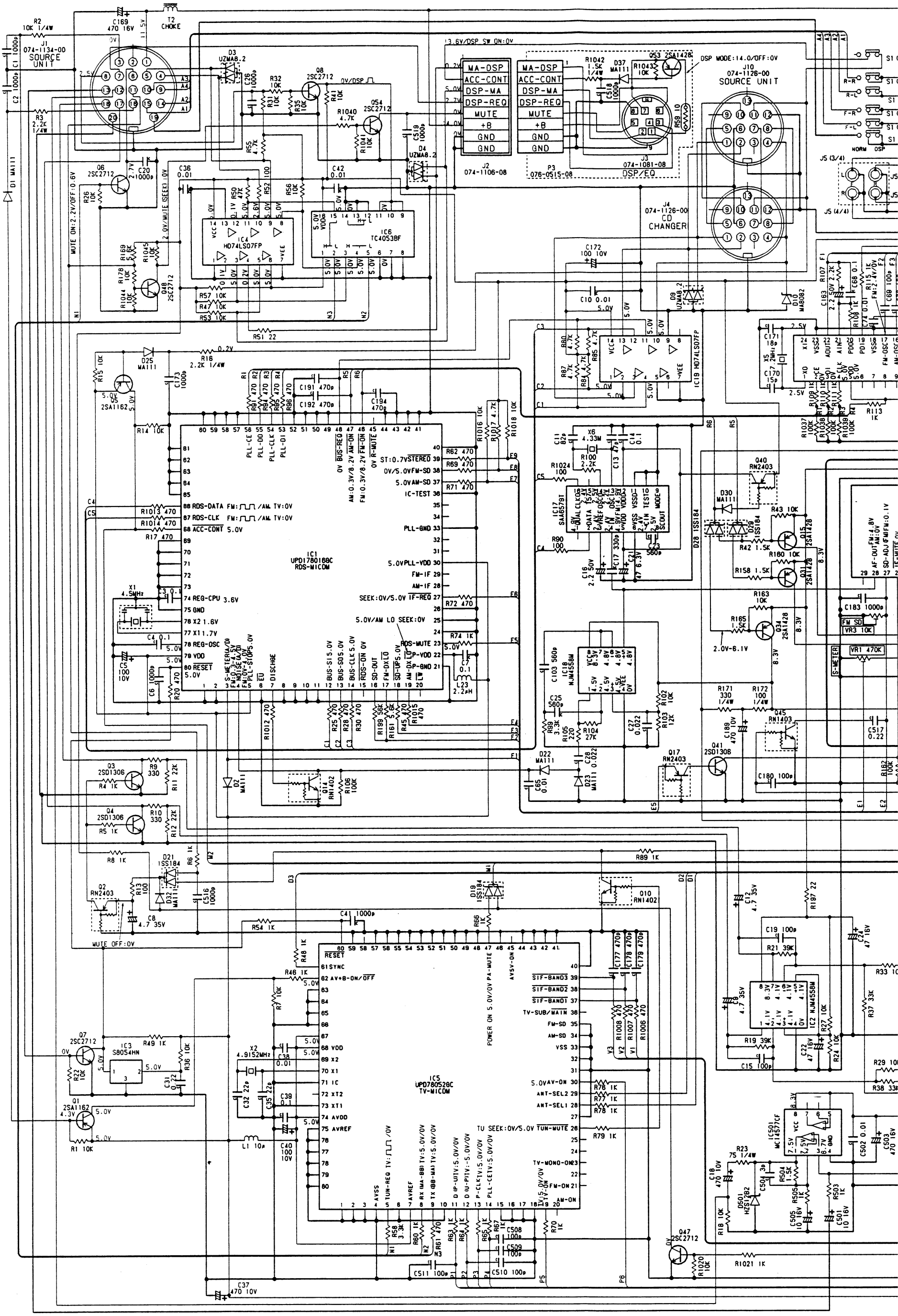
SUB ANT1 SUB ANT2 SUB ANT3 SUB ANT4

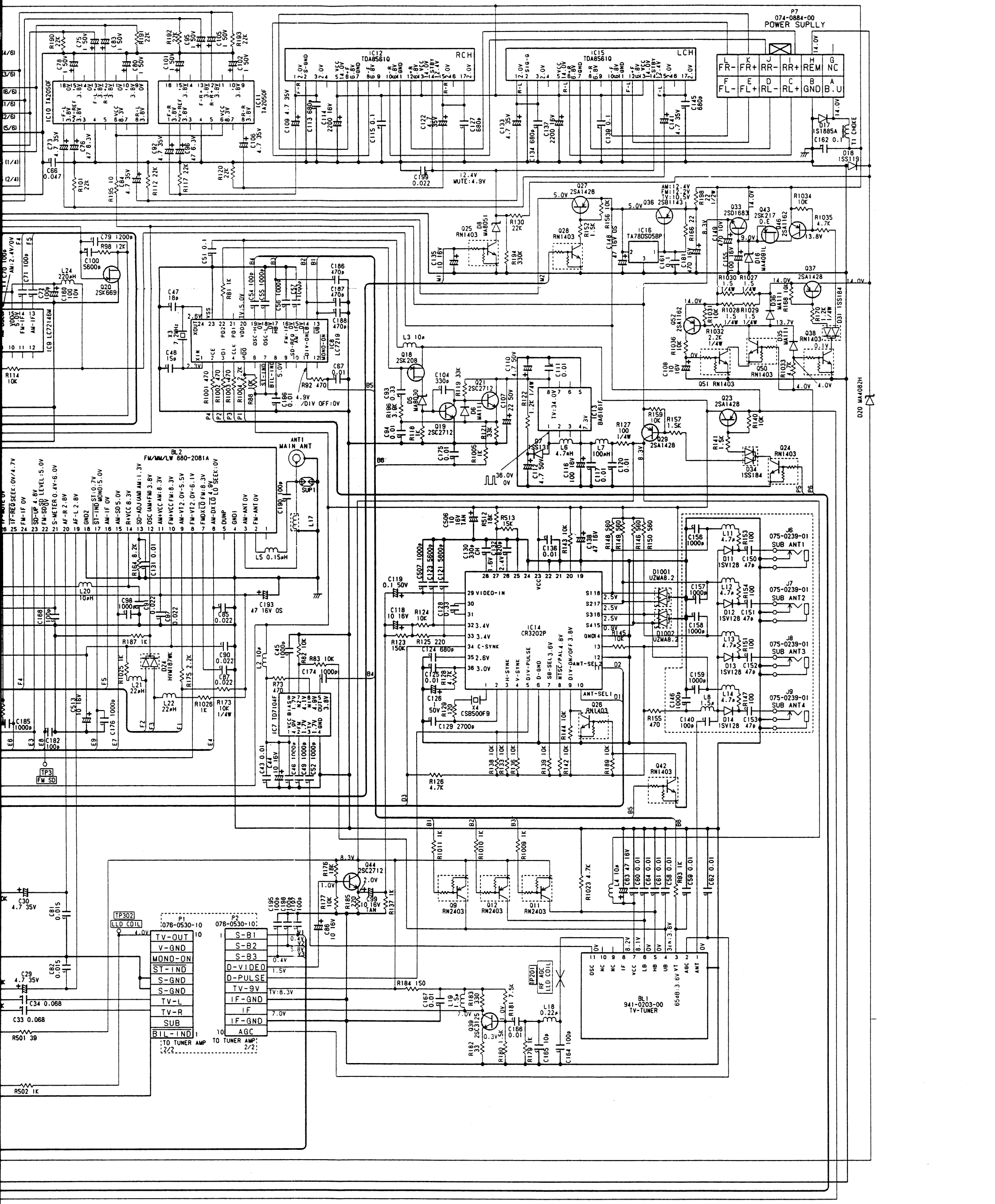
MAIN ANT

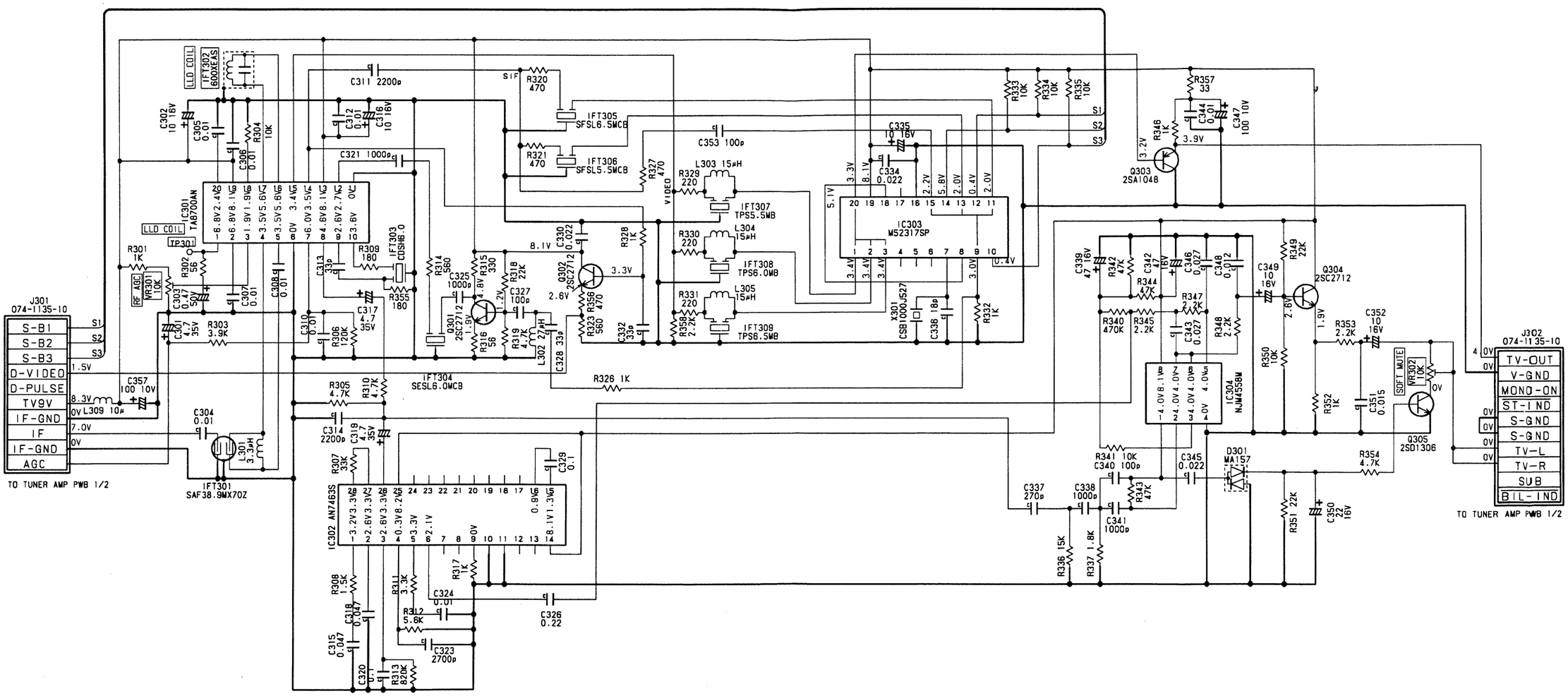
VRX8370

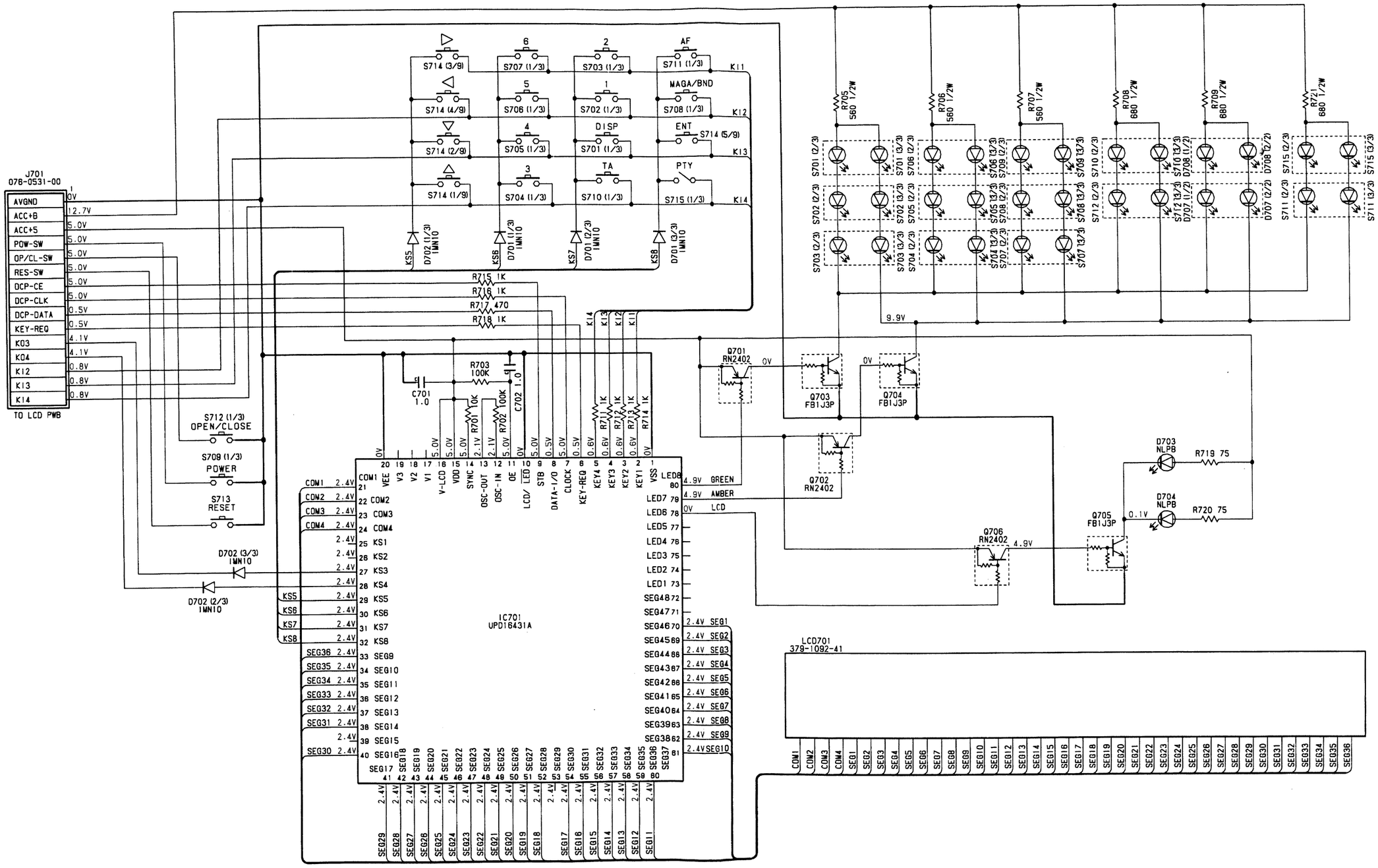
■CIRCUIT DIAGRAM

Tuner amp P.W.B section 1 / 2

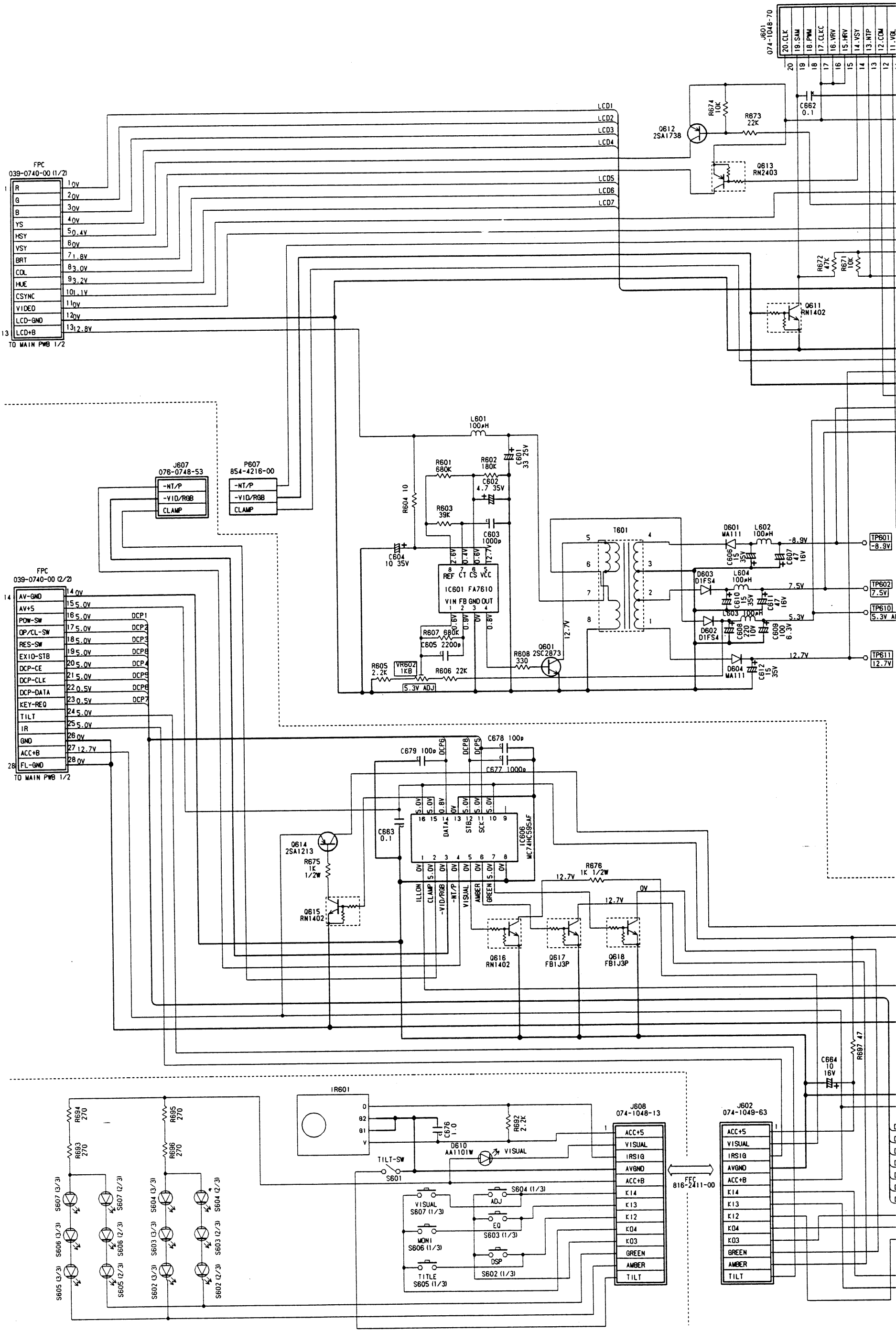


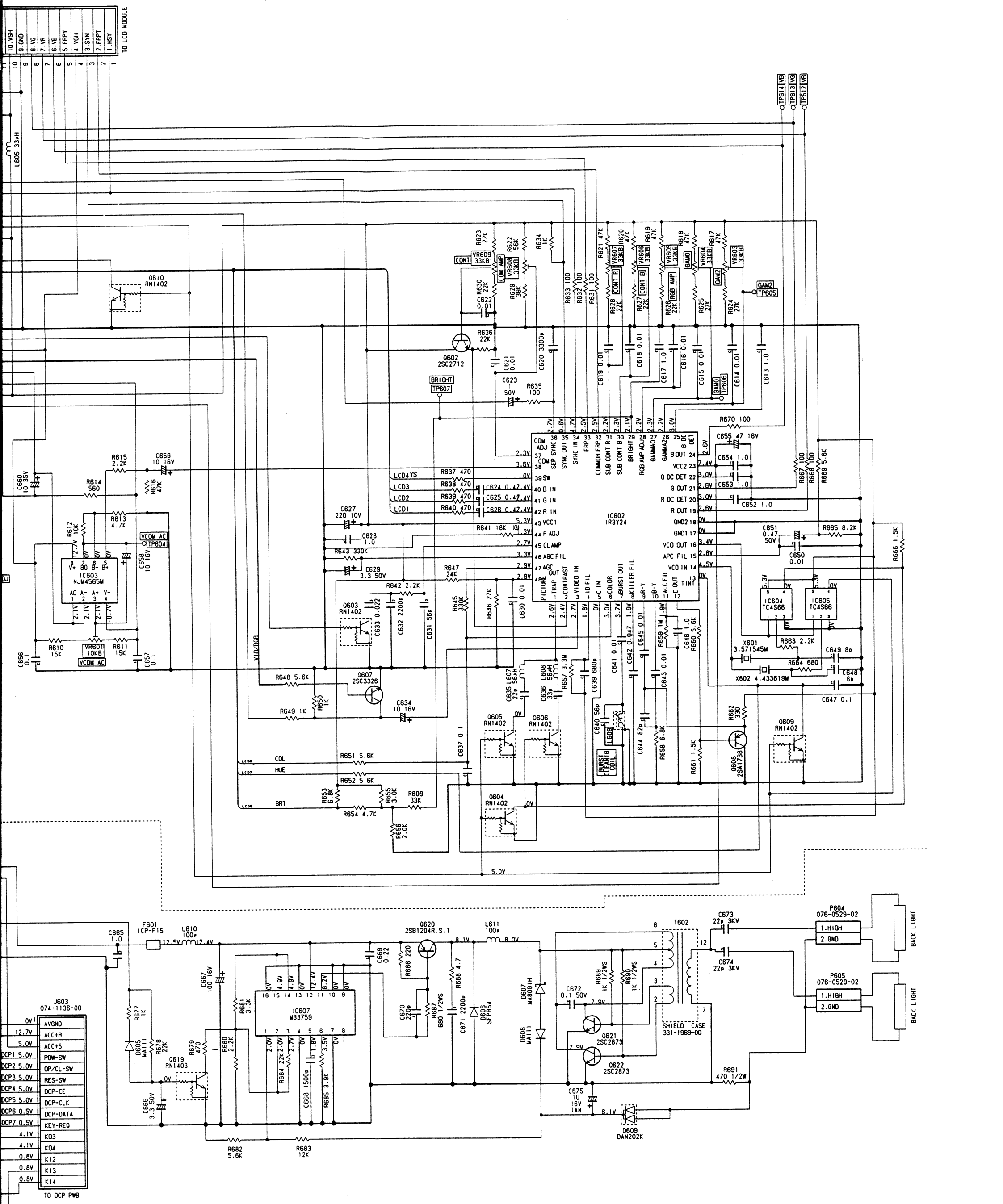

P7
074-0884-00
POWER SUPLLY
FR- FR+ RR- RR+ REM NC
FL- FL+ RL- RL+ GND B.U
IC12 TDA8561Q RCH
IC15 TDA8561Q LCH
IC10 TA2050F
IC11 TA2050F
IC16 TA78DS05BP
IC14 CR3202P
IC7 TD7104F
IC8 LC7219
IC9 LC72146N
IC13 BA6161F
BL2 FM/MW/LW 880-2081A
BL1 941-0203-00 TV-TUNER
ANT1 MAIN ANT
SUP1
L17
L5 0.15μH
L24 220μH
L20 10μH
L21 22μH
L22 22μH
L2 10μ
L3 10μ
L4 10μ
L6 4.7μH
L7 100μH
L8 1.5μ
L18 0.22μ
L19 1.5μ
X3 7.2MHz
X4 CSB500F9
D1001 UZMA8.2
D1002 UZMA8.2
D24 HVM187WK
D20 MA4082H
TP3 FM SD
TP302 LLD COIL
[TP201] RF AGC LLD COIL
P1 076-0530-10
P2 076-0530-10
TV-OUT
V-GND
MONO-ON
ST-IND
S-GND
S-GND
TV-L
TV-R
SUB
BIL-IND
S-B1
S-B2
S-B3
D-VIDEO
D-PULSE
TV-9V
IF-GND
IF
IF-GND
AGC
TO TUNER AMP 2/2
J6 075-0239-01 SUB ANT1
J7 075-0239-01 SUB ANT2
J8 075-0239-01 SUB ANT3
J9 075-0239-01 SUB ANT4
Q18 2SK208
Q19 2SC2712
Q21 2SC2712
Q25 RN1403
Q26 RN1403
Q27 2SA1428
Q28 RN1403
Q29 2SA1428
Q33 2SD1683
Q36 2SB1143
Q37 2SA1428
Q38 RN1403
Q39 2SC3125
Q42 RN1403
Q43 2SK217 D.E
Q44 2SC2712
Q46 2SA1162
Q50 RN1403
Q51 RN1403
Q52 2SA1162
Q23 2SA1428
Q24 RN1403
Q9 RN2403
Q12 RN2403
Q11 RN2403
D5 MA8030
D6 MA111
D8 MA8051
D16 MA4081L
D17 1S1885A
D18 1SS119
D31 1SS184
D34 1SS184
D35 MA111
D36 MA111
D11 1SV128
D12 1SV128
D13 1SV128
D14 1SV128
D7 1SS133
R130 22K
R194 330K
R152 1.5K
R156 10K
R166 22
R198 22 1/2W
R1034 10K
R1035 4.7K
R1030 1.5 1/4W
R1027 1.5 1/4W
R1028 1.5 1/4W
R1029 1.5 1/4W
R1031 10K
R1032 2.2K 1/4W
R1036 10K
R1033 4.7K
R168 10K
R170 1.2K 1/4W
R159 10K
R157 1.5K
R140 10K
R141 1.5K
R127 100 1/4W
R122 1.2K 1/4W
R119 33K
R121 33K
R1005 1K
R118 1K
R186 3.9K
R1001 470
R1002 470
R1003 470
R1004 2.2K
R88 10K
R92 470
R81 1K
R82 10K
R83 10K
R73 470
R98 12K
R114 10K
R187 1K
R1025 1K
R175 2.2K
R1026 1K
R173 10K 1/4W
R164 8.2K
R101 22K
R112 22K
R117 22K
R120 22K
R195 10
R84 4.7 35V
R190 22K
R191 22K
R192 22K
R193 22K
R1011 1K
R1010 1K
R1008 1K
R1023 4.7K
R176 10K
R177 10K
R185 220
R137 1K
R184 150
R183 330
R181 7.5K
R180 1.5K
R182 33
R179 1K
R501 39
R502 1K
R512 10K
R513 5K
R143 10K
R148 560
R149 560
R146 560
R150 560
R124 10K
R123 150K
R125 220
R128 4.7K
R129 120
R126 4.7K
R138 10K
R133 10K
R136 10K
R139 10K
R144 10K
R142 10K
R189 10K
R145 10K
R155 470
R153 100
R154 100
R151 100
R147 100
C73 4.7 35V
C76 47 6.3V
C66 0.047
C92 4.7 35V
C96 47 6.3V
C106 4.7 35V
C102 1 50V
C105 1 50V
C95 1 50V
C101 1 50V
C78 1 50V
C75 1 50V
C83 1 50V
C80 1 50V
C109 4.7 35V
C113 680p
C114 2200 16V
C115 0.1
C122 4.7 35V
C127 680p
C199 0.022
C133 4.7 35V
C134 680p
C137 2200 16V
C139 0.1
C141 4.7 35V
C145 680p
C162 0.1
T1 CHOKE
C135 10 16V
C148 47 16V OS
C161 0.1
C181 470 16V
C155 100 16V
C148 470 10V
C110 4.7 50V
C111 0.01
C107 22 50V
C112 4.7 50V
C116 100 16V
C117 0.01
C120 0.01
C175 0.01
C94 0.01
C93 0.33
C104 330p
C186 0.01
C187 470p
C188 470p
C186 470p
C67 0.01
C48 15p
C47 18p
C51 0.1
C54 100p
C55 1000p
C56 1000p
C57 1000p
C79 1200p
C100 5600p
C71 100p
C72 100p
C160 100 10V
C70 100p
C168 100p
C98 1000p
C91 0.022
C89 0.022
C85 0.022
C90 0.022
C87 0.022
C513 10 16V
C176 1000p
C185 1000p
C182 100p
C45 1000p
C174 1000p
C43 0.01
C44 10 16V
C46 1000p
C49 1000p
C52 1000p
C193 47 16V OS
C190 100p
C119 0.1 50V
C118 10 16V
C130 330p CH
C132 820p
C136 0.01
C138 47 16V
C507 1000p
C123 5600p
C121 5600p
C506 10 16V TAN
C128 0.33
C124 680p
C125 0.01
C126 50V
C129 2700p
C156 1000p
C157 1000p
C158 1000p
C159 1000p
C146 1000p
C140 100p
C150 47p
C151 47p
C152 47p
C153 47p
C63 47 16V
C60 0.01
C64 0.01
C61 0.01
C58 0.01
C59 0.01
C62 0.01
C30 4.7 35V
C81 0.015
C82 0.015
C29 4.7 35V
C34 0.068
C33 0.068
C195 100p
C198 100p
C197 100p
C196 100p
C86 10 16V
C39 10 16V TAN
C167 0.01
C166 0.01
C165 10p
C164 100p
C108 10 16V
C141 4.7 35V
C139 0.1
C161 0.1
C181 470 16V
C155 100 16V
C148 470 10V
C148 47 16V OS
C135 10 16V
C107 22 50V
C112 4.7 50V
C116 100 16V
C117 0.01
C120 0.01
C175 0.01
C94 0.01
C93 0.33
C104 330p
C186 0.01
C187 470p
C188 470p
C186 470p
C67 0.01
C48 15p
C47 18p
C51 0.1
C54 100p
C55 1000p
C56 1000p
C57 1000p
C79 1200p
C100 5600p
C71 100p
C72 100p
C160 100 10V
C70 100p
C168 100p
C98 1000p
C91 0.022
C89 0.022
C85 0.022
C90 0.022
C87 0.022
C513 10 16V
C176 1000p
C185 1000p
C182 100p
C45 1000p
C174 1000p
C43 0.01
C44 10 16V
C46 1000p
C49 1000p
C52 1000p
C193 47 16V OS
C190 100p
C119 0.1 50V
C118 10 16V
C130 330p CH
C132 820p
C136 0.01
C138 47 16V
C507 1000p
C123 5600p
C121 5600p
C506 10 16V TAN
C128 0.33
C124 680p
C125 0.01
C126 50V
C129 2700p
C156 1000p
C157 1000p
C158 1000p
C159 1000p
C146 1000p
C140 100p
C150 47p
C151 47p
C152 47p
C153 47p
C63 47 16V
C60 0.01
C64 0.01
C61 0.01
C58 0.01
C59 0.01
C62 0.01
C30 4.7 35V
C81 0.015
C82 0.015
C29 4.7 35V
C34 0.068
C33 0.068
C195 100p
C198 100p
C197 100p
C196 100p
C86 10 16V
C39 10 16V TAN
C167 0.01
C166 0.01
C165 10p
C164 100p
C108 10 16V
C141 4.7 35V
C139 0.1
C161 0.1
D1001 UZMA8.2
D1002 UZMA8.2
R1034 10K
R1035 4.7K
R1030 1.5 1/4W
R1027 1.5 1/4W
R1028 1.5 1/4W
R1029 1.5 1/4W
R1031 10K
R1032 2.2K 1/4W
R1036 10K
R1033 4.7K
R168 10K
R170 1.2K 1/4W
R159 10K
R157 1.5K
R140 10K
R141 1.5K
R127 100 1/4W
R122 1.2K 1/4W
R119 33K
R121 33K
R1005 1K
R118 1K
R186 3.9K
R1001 470
R1002 470
R1003 470
R1004 2.2K
R88 10K
R92 470
R81 1K
R82 10K
R83 10K
R73 470
R98 12K
R114 10K
R187 1K
R1025 1K
R175 2.2K
R1026 1K
R173 10K 1/4W
R164 8.2K
R101 22K
R112 22K
R117 22K
R120 22K
R195 10
R84 4.7 35V
R190 22K
R191 22K
R192 22K
R193 22K
R1011 1K
R1010 1K
R1008 1K
R1023 4.7K
R176 10K
R177 10K
R185 220
R137 1K
R184 150
R183 330
R181 7.5K
R180 1.5K
R182 33
R179 1K
R501 39
R502 1K
R512 10K
R513 5K
R143 10K
R148 560
R149 560
R146 560
R150 560
R124 10K
R123 150K
R125 220
R128 4.7K
R129 120
R126 4.7K
R138 10K
R133 10K
R136 10K
R139 10K
R144 10K
R142 10K
R189 10K
R145 10K
R155 470
R153 100
R154 100
R151 100
R147 100
Q18 2SK208
Q19 2SC2712
Q21 2SC2712
Q25 RN1403
Q26 RN1403
Q27 2SA1428
Q28 RN1403
Q29 2SA1428
Q33 2SD1683
Q36 2SB1143
Q37 2SA1428
Q38 RN1403
Q39 2SC3125
Q42 RN1403
Q43 2SK217 D.E
Q44 2SC2712
Q46 2SA1162
Q50 RN1403
Q51 RN1403
Q52 2SA1162
Q23 2SA1428
Q24 RN1403
Q9 RN2403
Q12 RN2403
Q11 RN2403
D5 MA8030
D6 MA111
D8 MA8051
D16 MA4081L
D17 1S1885A
D18 1SS119
D31 1SS184
D34 1SS184
D35 MA111
D36 MA111
D11 1SV128
D12 1SV128
D13 1SV128
D14 1SV128
D7 1SS133
P7
074-0884-00
POWER SUPLLY
FR- FR+ RR- RR+ REM NC
FL- FL+ RL- RL+ GND B.U
IC12 TDA8561Q RCH
IC15 TDA8561Q LCH
IC10 TA2050F
IC11 TA2050F
IC16 TA78DS05BP
IC14 CR3202P
IC7 TD7104F
IC8 LC7219
IC9 LC72146N
IC13 BA6161F
BL2 FM/MW/LW 880-2081A
BL1 941-0203-00 TV-TUNER
ANT1 MAIN ANT
SUP1
L17
L5 0.15μH
L24 220μH
L20 10μH
L21 22μH
L22 22μH
L2 10μ
L3 10μ
L4 10μ
L6 4.7μH
L7 100μH
L8 1.5μ
L18 0.22μ
L19 1.5μ
X3 7.2MHz
X4 CSB500F9
D1001 UZMA8.2
D1002 UZMA8.2
D24 HVM187WK
D20 MA4082H
TP3 FM SD
TP302 LLD COIL
[TP201] RF AGC LLD COIL
P1 076-0530-10
P2 076-0530-10
TV-OUT
V-GND
MONO-ON
ST-IND
S-GND
S-GND
TV-L
TV-R
SUB
BIL-IND
S-B1
S-B2
S-B3
D-VIDEO
D-PULSE
TV-9V
IF-GND
IF
IF-GND
AGC
TO TUNER AMP 2/2
J6 075-0239-01 SUB ANT1
J7 075-0239-01 SUB ANT2
J8 075-0239-01 SUB ANT3
J9 075-0239-01 SUB ANT4
Q18 2SK208
Q19 2SC2712
Q21 2SC2712
Q25 RN1403
Q26 RN1403
Q27 2SA1428
Q28 RN1403
Q29 2SA1428
Q33 2SD1683
Q36 2SB1143
Q37 2SA1428
Q38 RN1403
Q39 2SC3125
Q42 RN1403
Q43 2SK217 D.E
Q44 2SC2712
Q46 2SA1162
Q50 RN1403
Q51 RN1403
Q52 2SA1162
Q23 2SA1428
Q24 RN1403
Q9 RN2403
Q12 RN2403
Q11 RN2403
D5 MA8030
D6 MA111
D8 MA8051
D16 MA4081L
D17 1S1885A
D18 1SS119
D31 1SS184
D34 1SS184
D35 MA111
D36 MA111
D11 1SV128
D12 1SV128
D13 1SV128
D14 1SV128
D7 1SS133


J301
074-1135-10
S-B1
S-B2
S-B3
D-VIDEO
D-PULSE
TV9V
IF-GND
IF
IF-GND
AGC
TO TUNER AMP PWB 1/2
IFT301
SAF38.9MX70Z
IC301
TA8700AN
IC302
AN7463S
IC303
M52317SP
IC304
NJM4558M
X301
CSB1000J527
IFT302
600XEAS
LLD COIL
IFT304
SESL6.0MCB
IFT305
SFSL6.5MCB
IFT306
SFSL5.5MCB
IFT307
TPS5.5MB
IFT308
TPS6.0MB
IFT309
TPS6.5MB
Q301
2SC2712
Q302
2SC2712
Q303
2SA1048
Q304
2SC2712
Q305
2SD1306
D301
MA157
J302
074-1135-10
TV-OUT
V-GND
MOND-ON
ST-IND
S-GND
S-GND
TV-L
TV-R
SUB
BIL-IND
TO TUNER AMP PWB 1/2
RF AGC
SOFT MUTE
VIDEO
SIF
S1
S2
S3

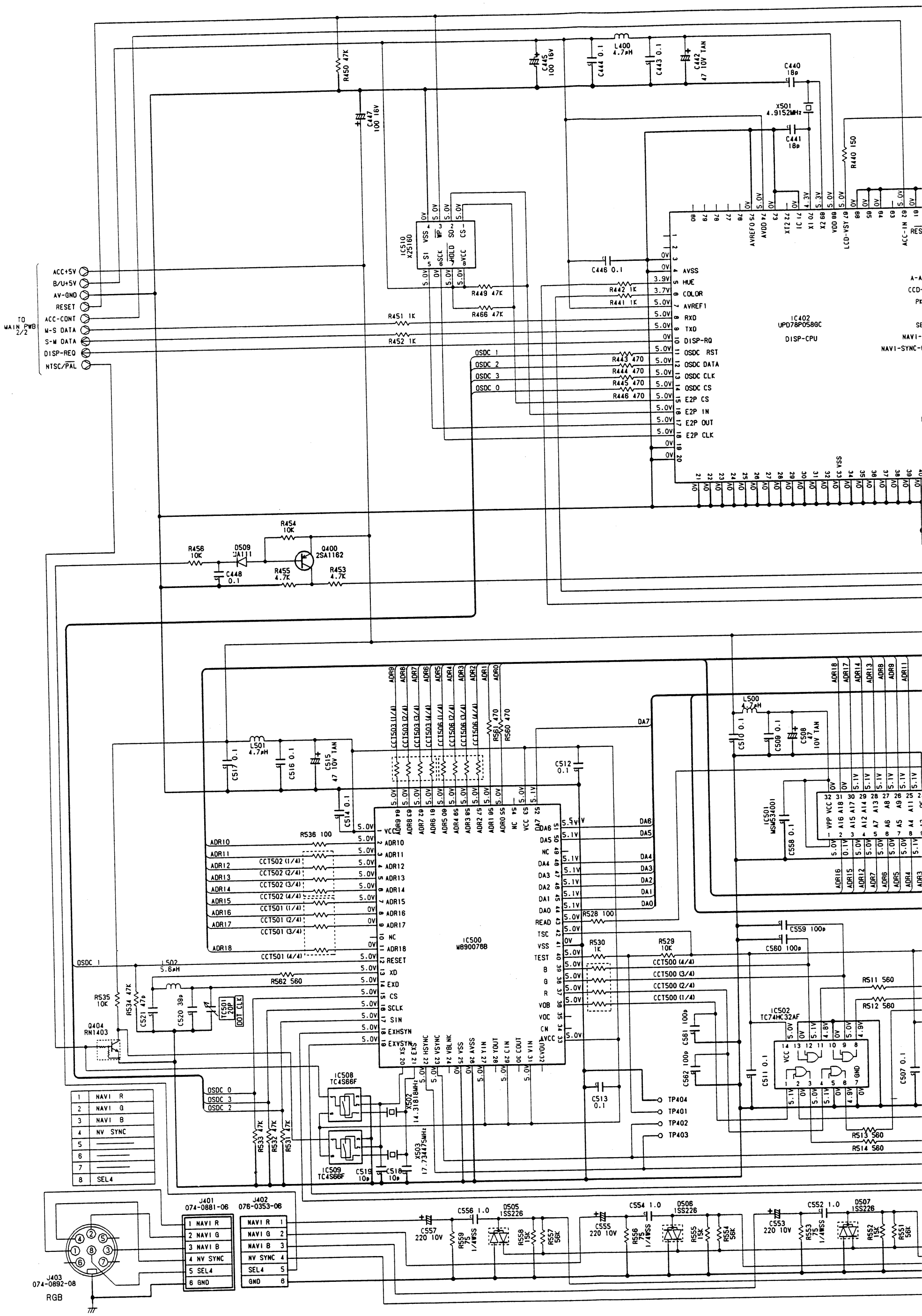

J701
078-0531-00
AVGND
ACC+B
ACC+5
POW-SW
OP/CL-SW
RES-SW
DCP-CE
DCP-CLK
DCP-DATA
KEY-REQ
KO3
KO4
K12
K13
K14
TO LCD PWB
S714 (3/9)
S707 (1/3)
S703 (1/3)
S711 (1/3)
S714 (4/9)
S706 (1/3)
S702 (1/3)
S708 (1/3)
S714 (2/9)
S705 (1/3)
S701 (1/3)
S714 (5/9)
S714 (1/9)
S704 (1/3)
S710 (1/3)
S715 (1/3)
D702 (1/3) 1WN10
D701 (1/3) 1WN10
D701 (2/3) 1WN10
D701 (3/3) 1WN10
R715 1K
R716 1K
R717 470
R718 1K
S712 (1/3) OPEN/CLOSE
S709 (1/3) POWER
S713 RESET
D702 (3/3) 1WN10
D702 (2/3) 1WN10
C701 1.0
R703 100K
C702 1.0
R701 10K
R702 100K
R711 1K
R712 1K
R713 1K
R714 1K
IC701
UPD16431A
R705 560 1/2W
R706 560 1/2W
R707 560 1/2W
R708 680 1/2W
R709 680 1/2W
R721 680 1/2W
9.9V
Q701 RN2402
Q703 FB1J3P
Q704 FB1J3P
Q702 RN2402
Q706 RN2402
Q705 FB1J3P
D703 NLPB
R719 75
D704 NLPB
R720 75
LCD701
379-1092-41

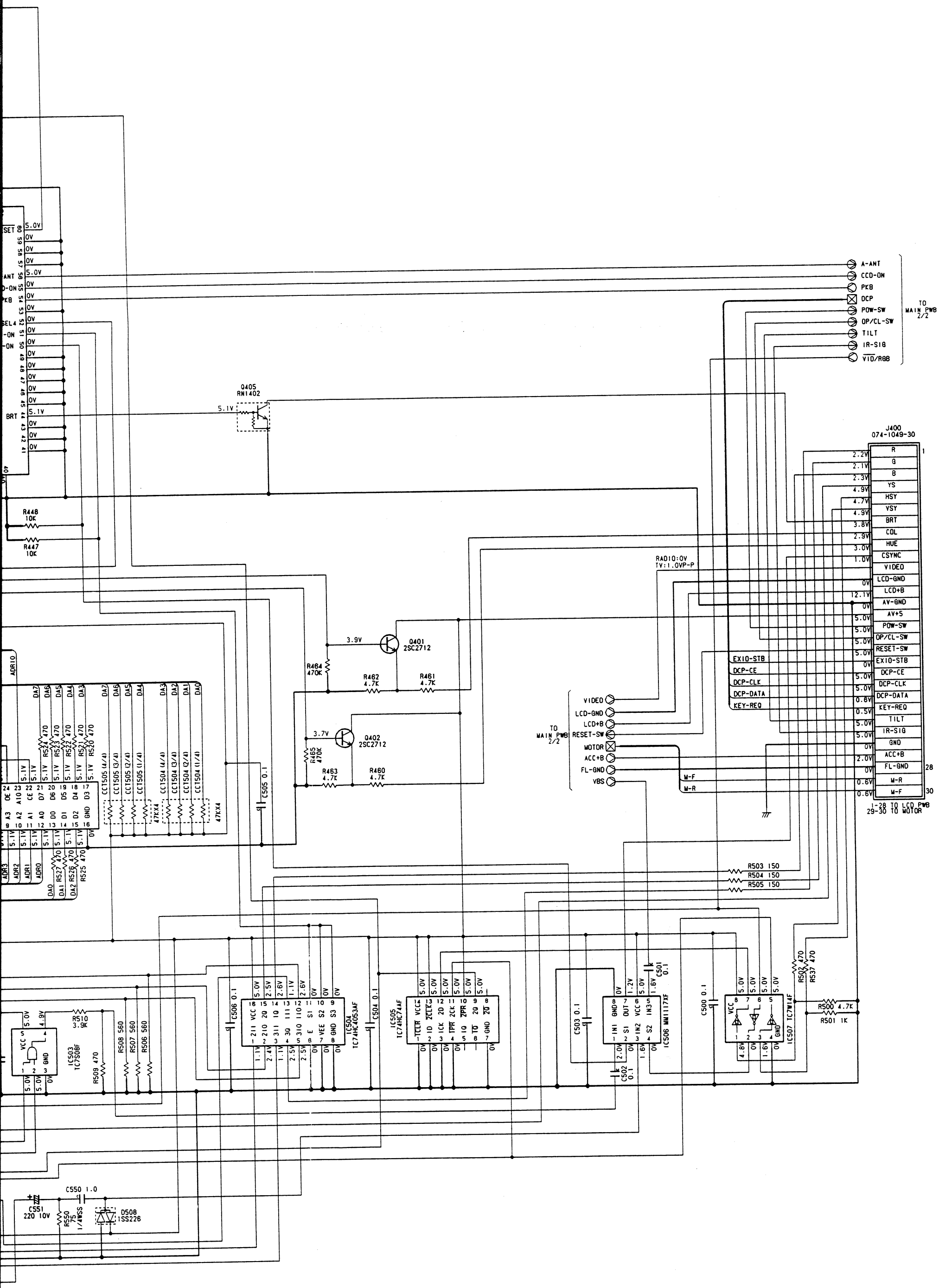
LCD P.W.B section



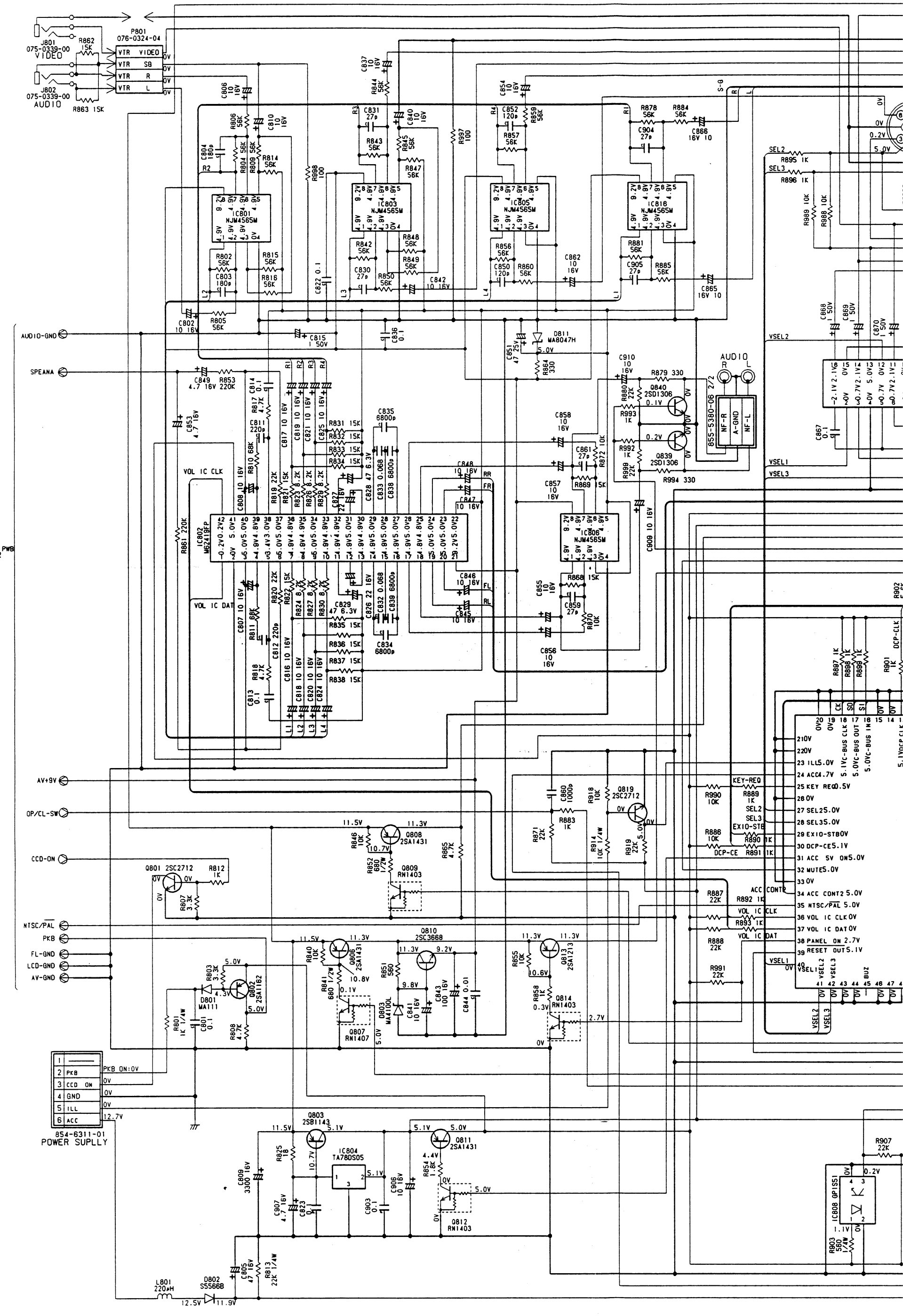

TO LCD MODULE
10.VSH
9.GND
8.VG
7.VR
6.VB
5.FRPY
4.VGH
3.SYN
2.FRPT
1.HSY
L605 33µH
Q610 RN1402
R623 22K
R622 56K
R634 1K
VR609 33KB
VR608 33KB
CONT
CHM AMP
R630 22K
C622 0.01
R629 39K
R633 100
R632 100
R631 100
R621 47K
VR607 33KB
R620 47K
VR606 33KB
R619 47K
VR605 33KB
R618 47K
VR604 33KB
R617 47K
VR603 33KB
CONT R
CONT B
RGB AMP
GAM0
GAM2
R628 22K
R627 22K
R626 22K
R625 27K
R624 27K
TP614 VB
TP613 VG
TP612 VR
TP605
R636 22K
Q602 2SC2712
C621 0.01
C620 3300p
C623 50V
R635 100
BRIGHT TP607
C619 0.01
C618 0.01
C617 1.0
C616 0.01
C615 0.01
C614 0.01
C613 1.0
TP606
R670 100
C655 47 16V
C654 1.0
C653 1.0
C652 1.0
R667 100
R668 100
R669 5.6K
R615 2.2K
C659 10 16V
C660 10 35V
R614 560
R616 47K
R613 4.7K
R612 10K
VCOM AC
TP604
IC603 NJM4565M
C658 10 16V
R610 15K
VR601 10KB
R611 15K
C656 0.1
C657 0.1
C627 220 10V
C628 1.0
R643 330K
C629 3.3 50V
R641 18K (G)
R637 470
R638 470
R639 470
R640 470
LCD4YS
LCD3
LCD2
LCD1
C624 0.47 4V
C625 0.47 4V
C626 0.47 4V
IC602 IR3Y24
COM ADJ
COM SEP SYNC
SW
B IN
G IN
R IN
VCC1
F ADJ
CLAMP
AGC FIL
AGC OUT
PICTURE
TRAP
CONTRAST
VIDEO IN
ID FIL
C IN
COLOR
BURST OUT
KILLER FIL
R-Y
B-Y
ACC FIL
C OUT
TINT
SYNC OUT
SYNC IN
FRP
COMMON FRP
SUB CONT R
SUB CONT B
BRIGHT
RGB AMP ADJ
GAMMA0
GAMMA2
B DC DET
B OUT
VCC2
B DC DET
G OUT
R DC DET
R OUT
GND2
GND1
VCO OUT
APC FIL
VCO IN
TINT
C651 0.47 50V
R665 8.2K
R666 1.5K
C650 0.01
IC604 TC4S66
IC605 TC4S66
X601 3.571545M
R663 2.2K
R664 680
C649 8p
C648 8p
X602 4.433619M
C647 0.1
R647 24K
R642 2.2K
Q603 RN1402
C633 0.022
C632 2200p
C631 56p
R645 330K
R646 27K
C630 0.01
-VID/RGB
R648 5.6K
R650 1K
R649 1K
Q607 2SC3326
C634 10 16V
C635 L607 22p 56µH
C636 L608 33p 56µH
R657 3.3M
C639 680p
C641 0.01
C642 0.047
C645 0.01
C643 0.01
R659 1M
C646 1.0
R660 5.6K
C640 56p
L609
BURST CLAMP COIL
C644 82p
R658 6.8K
R662 330
Q608 2SA1738
R661 1.5K
Q609 RN1402
Q605 RN1402
Q606 RN1402
C637 0.1
LCD8 COL
LCD7 HUE
LCD6 BRT
R651 5.6K
R652 5.6K
R653 6.8K
R655 3.0K
R609 33K
R654 4.7K
R656 2.0K
Q604 RN1402
5.0V
F601 1CP-F15
L610 100µ
C665 1.0
C667 100 16V
R681 3.3K
C669 0.22
Q620 2SB1204R.S.T
L611 100µ
R686 220
R688 4.7
C670 220p
R687 680 1/2WS
C671 2200p
D606 SFPB54
D607 MA8081H
D608 MA111
IC607 MB3759
R677 1K
D605 MA111
R678 22K
Q619 RN1403
R679 470
R680 2.2K
R684 22K
C668 1500p
R685 3.9K
C666 3.3 50V
R682 5.6K
R683 12K
R689 1K 1/2WS
R690 1K 1/2WS
C672 0.1 50V
T602
SHIELD CASE 331-1969-00
Q621 2SC2873
Q622 2SC2873
R691 470 1/2W
C675 1U 16V TAN
D609 DAN202K
C673 22p 3KV
C674 22p 3KV
P604 076-0529-02
P605 076-0529-02
1.HIGH
2.GND
BACK LIGHT
J603 074-1136-00
AVGND
ACC+B
ACC+5
POW-SW
OP/CL-SW
RES-SW
DCP-CE
DCP-CLK
DCP-DATA
KEY-REQ
KO3
KO4
K12
K13
K14
TO DCP PWB

Main P.W.B section 1 / 2




A-ANT
CCD-ON
PKB
DCP
POW-SW
OP/CL-SW
TILT
IR-SIG
VID/R&B
TO MAIN PWB 2/2
Q405 RN1402
5.1V
BRT
R448 10K
R447 10K
J400 074-1049-30
R
G
B
YS
HSY
VSY
BRT
COL
HUE
CSYNC
VIDEO
LCD-GND
LCD+B
AV-GND
AV+5
POW-SW
OP/CL-SW
RESET-SW
EXIO-STB
DCP-CE
DCP-CLK
DCP-DATA
KEY-REQ
TILT
IR-SIG
GND
ACC+B
FL-GND
M-R
M-F
RADIO:0V TV:1.0VP-P
1-28 TO LCD PWB
29-30 TO MOTOR
TO MAIN PWB 2/2
VIDEO
LCD-GND
LCD+B
RESET-SW
MOTOR
ACC+B
FL-GND
VBS
M-F
M-R
Q401 2SC2712
Q402 2SC2712
3.9V
3.7V
R464 470K
R462 4.7K
R461 4.7K
R465 470K
R463 4.7K
R460 4.7K
C505 0.1
R503 150
R504 150
R505 150
IC503 TC7S08F
IC504 TC74HC4053AF
IC505 TC74HC74AF
IC506 NJM1117XF
IC507 TC7W14F
C506 0.1
C504 0.1
C503 0.1
C502 0.1
C501 0.1
C500 0.1
R510 3.9K
R509 470
R508 560
R507 560
R506 560
R500 4.7K
R501 1K
R502 470
R537 470
C550 1.0
C551 220 10V
R550 75 1/4WSS
D508 1SS226

Main P.W.B section 2 / 2



J806 20P

1	B/U
2	GND
3	RES
4	RX
5	TX
6	TUN-RQ
7	DSP-RQ
8	DSP/TUN
9	FL
10	FR
11	DSP-MUTE
12	VIDEO-IN
13	VIDEO-GND
14	RL
15	RR
16	AV-ON
17	TUN-L
18	TUN-R
19	FR-GND
20	S-GND

J804 074-1030-00 — VTR/CCD

1	SEL3
2	SEL2
3	REMOCON
4	VIDEO
5	R-CH
6	L-CH
7	GND
8	GND

VIDEO: V-OUT, V-GND — 855-5380-06 1/2

1	SI/SO
2	SCK
3	—
4	SRQ
5	—
6	S-GND
7	L-CH
8	R-CH
9	—
10	B/U
11	ACC-CONT
12	GND
13	—

TUNER AMP UNIT

J805 074-1126-10

J806 074-1134-00 TUNER AMP UNIT

IC811 UPD78058

IC810 MM1031XM

IC807 BA7603F

IC809 GP1S51

IC812 HD74LS07FP

IC813 TC4052BF

IC814 TA7291S

IC815 MB3771PF

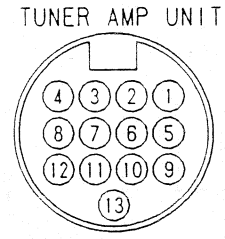
TO MAIN PWB 1/2

VIDEO
VBS
ACC+5V
B/U+5V
ACC+B
LCD+B
M-S DATA
S-M DATA
DCP
MOTOR
RESET-SW
RESET
TILT
IR-SIG
ACC-CONT
DISP-REQ
VID/RGB
POW-SW

Main P.W.B / LCD P.W.B / DCP P.W.B section

1	SI/SO
2	SCK
3	———
4	SRQ
5	REMOTE POWER
6	S-GND
7	Lch
8	Rch
9	———
10	BACK UP
11	ACC CONT
12	GND
13	———

TUNER AMP UNIT



VR603:r2 ADJ
TP605:r2 ADJ
VR604:r0 ADJ
TP606:r0 ADJ
VR605:RGB AMP
VR606:CONT-B
VR607:CONT-R
TP607:BRT
VR609:CONT G
VR608:COM AMP

TP602:7.5V
TP610:5.3V ADJ
TP611:12.7V
VR602:5.3V ADJ
TP601:-8.9V
TP604:VCOM AC
L609:BURST CLEANIG COIL
VR601:VCOM DC
TP613:VG
TP614:VB
TP612:VR

TO LCD MODULE

TO BACK LIGHT

J805 074-1126-10

J601 076-1048-70

J602 074-1049-63

J608 074-1048-13

816-2411-00

P604 076-0529-02

P605 076-0529-02

J603 074-1136-00

J607 076-0478-53

P702 076-0531-00

MOTOR

TC501:DOT CLK

IC	Q
607	705
601	601
	706
	620
603	610 614
605 701	605 621 606 622 613
604	604 612
602	615 609 619
606	616 701 617 702 704 618 703
	602 607 611
508 509 510	821 404

1	SEL3
2	SEL2
3	REMOTE
4	VIDEO IN
5	Rch-IN
6	Lch-IN
7	GND
8	A-GND
CASE	GND

VTR/CCD

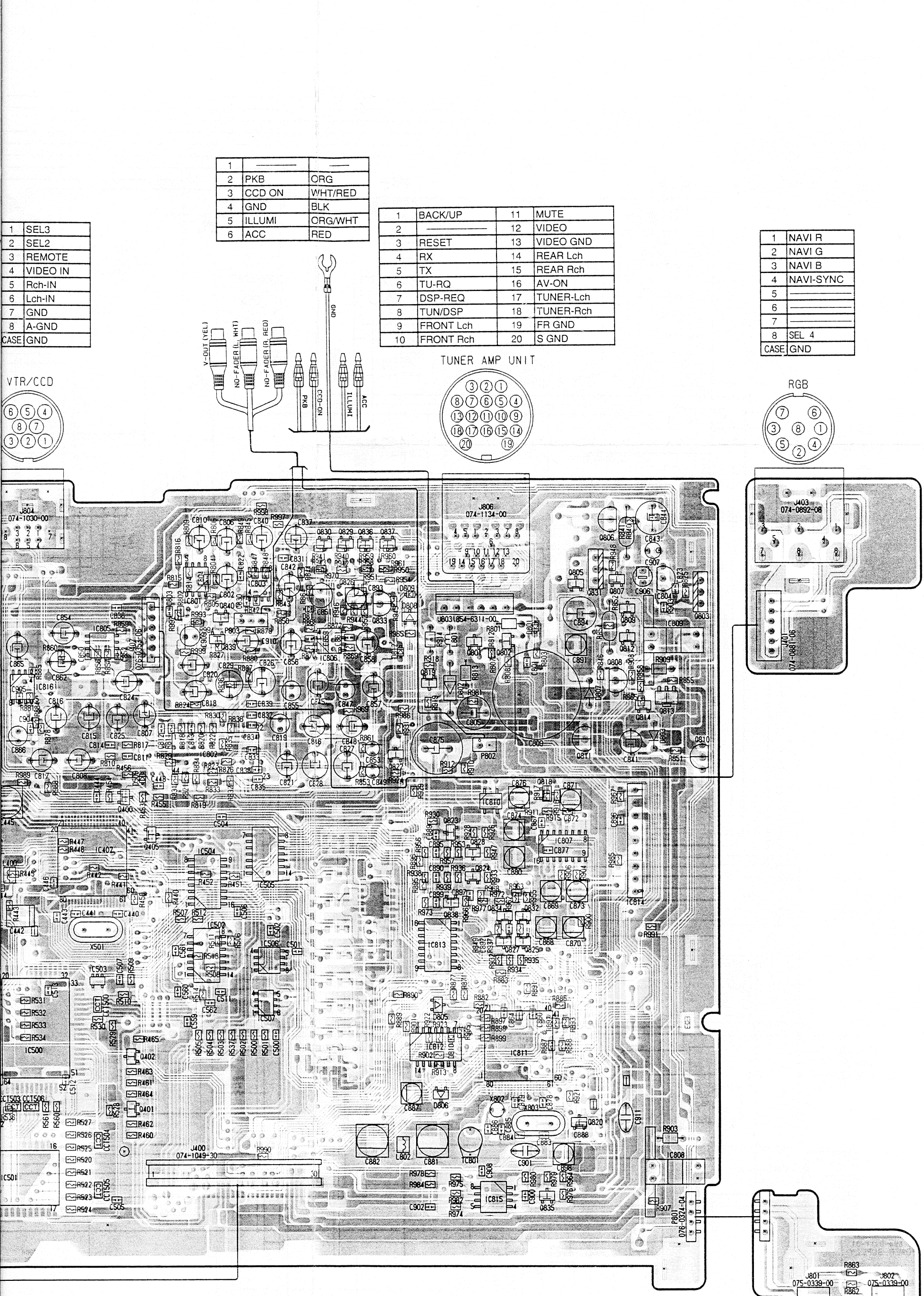
1	———	———
2	PKB	ORG
3	CCD ON	WHT/RED
4	GND	BLK
5	ILLUMI	ORG/WHT
6	ACC	RED

1	BACK/UP	11	MUTE
2	———	12	VIDEO
3	RESET	13	VIDEO GND
4	RX	14	REAR Lch
5	TX	15	REAR Rch
6	TU-RQ	16	AV-ON
7	DSP-REQ	17	TUNER-Lch
8	TUN/DSP	18	TUNER-Rch
9	FRONT Lch	19	FR GND
10	FRONT Rch	20	S GND

TUNER AMP UNIT

1	NAVI R
2	NAVI G
3	NAVI B
4	NAVI-SYNC
5	———
6	———
7	———
8	SEL 4
CASE	GND

RGB



401 402 405 400 839 840 826 829 836 832 833 837 823 838 801 824 828 802 827 834 825 832 818 835 805 811 820 831 806 807 808 809 812 814 813 803 810
501 500 816 402 503 805 801 502 504 802 505 506 507 803 830 806 812 813 810 815 811 807 804 808 809